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# THE NEW ENGLAND COLLEGE OF OPTOMETRY

Catalog 1995 -1997



## Foreword

This catalog is designed for the limited purpose of providing information to the students of The New England College of Optometry during their course of study.

The College makes every effort to be certain that the catalog is substantively true and correct in content and policy as of the date of publication. It should not, however, be construed as the basis of an offer or contract between the College and any present or prospective student. While to the College's knowledge, the catalog contains no erroneous, deceptive, or misleading statements or omissions, the College retains the right to amend, add or delete any information in the catalog, including any course of study, program or regulation, subsequent to publication thereof.

Announcement of such changes are made on a routine basis within the College.

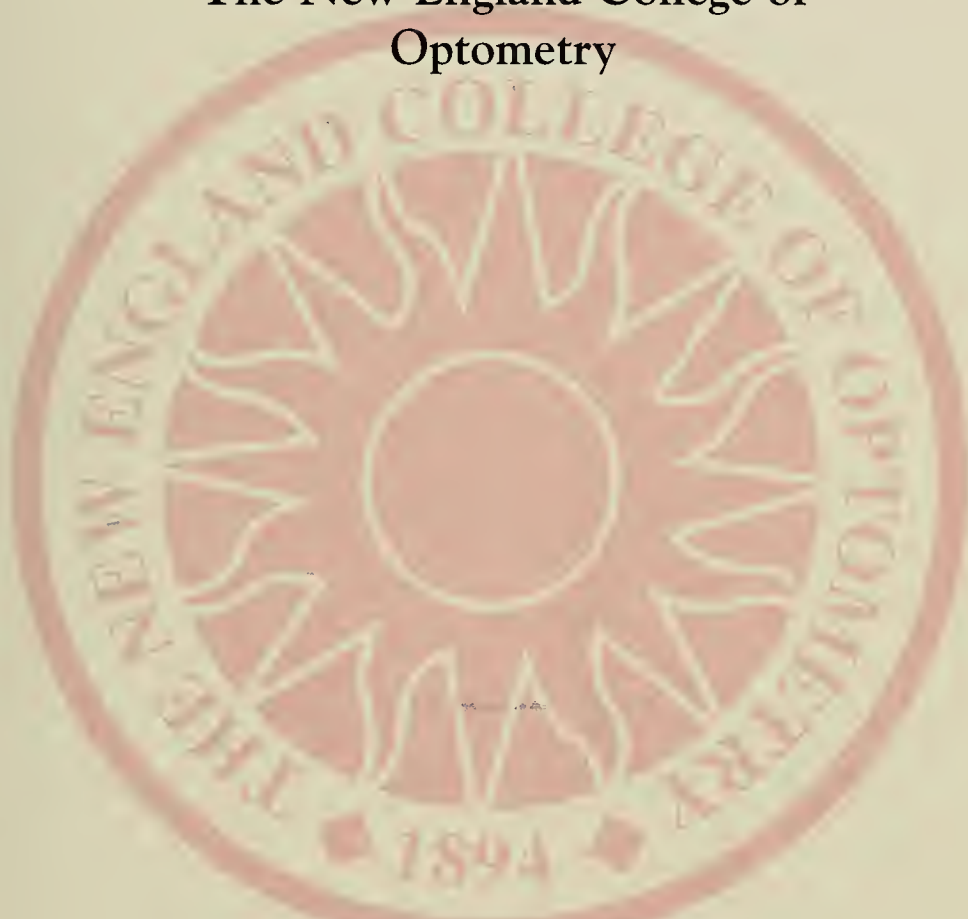
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The New England College of Optometry prohibits discrimination on the basis of race, sex, religion, color, creed, marital or parental status, sexual preference, or national origin in the recruitment and admission of students, the recruitment and employment of faculty and staff, and the operation of its programs and activities, as specified by federal and state laws and regulations.

*Volume Number 100  
July 1995*

189

**The New England College of  
Optometry**




**Catalog 1995 - 1997**

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424 Beacon Street  
Boston, Massachusetts 02115

Photographs by J.D. Sloan, Photographer

Designed by Dara E. Pannebaker, Designs

Printed by Summit Press Inc., Chelsea MA

 This Publication is printed on recycled stock



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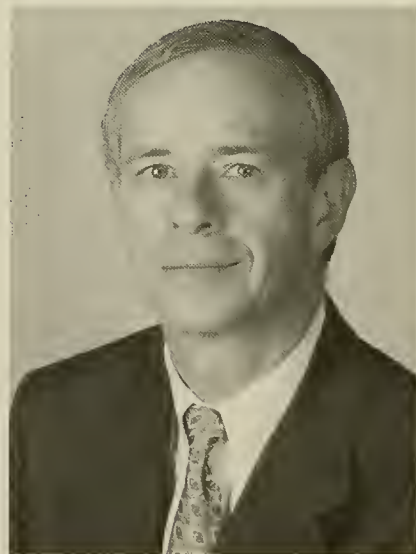
What president

Dear Student,

Optometry is a rapidly changing profession which will require your dedication and attention to continued growth and learning for the duration of your professional career. Your study at The New England College of Optometry is the doorway for entry into the profession of optometry. Today 80% of the states grant optometrists the responsibility to manage and treat diseases of the eye. During your early career all states will provide for this challenge and accept the public trust implicit within this evolution of the profession.

The New England College of Optometry is dedicated to fostering an educational environment where students, faculty, and alumni can learn through active inquiry. Although the principal focus of the College is the education of students, the College also fulfills an important mission of public service through the delivery of optometric care. We have developed a superb network of clinical settings throughout the New England region, the nation, and several foreign countries. This network forms the foundation of a rich and diverse clinical education program for all students.

In addition to an immersion into the visual, biological, and clinical sciences we trust that your education at The New England College of Optometry will provide you with a sensitivity to and awareness of professional ethics, values, and obligations. Indeed, upon graduation you will embark upon a career in which you are entrusted with the responsibility for caring for a precious gift — the gift of sight.



Sincerely,

*Larry R. Clausen*

Larry R. Clausen, O.D., Ed.D.  
President

Dear Student,

I am delighted that you have chosen The New England College of Optometry as the institution where you will prepare for your optometric career.

I am truly excited as our College begins its second century. Ten decades of success for The New England College of Optometry and for optometric education is indeed an achievement in which our entire College family can take pride. The accomplishments of our graduates and their contributions to health care and society have been most impressive. Their success reflects the high quality of educational opportunity provided at our College.

The New England College of Optometry is located in the historic Back Bay section of Boston within a city of world-renowned cultural, educational, and health care institutions. We have outstanding and dedicated faculty to assist you in developing your knowledge of didactic and clinical skills. Our extensive network of clinical locations throughout the country and abroad provide diverse experiences for our students which meet the intense clinical practice demands of modern optometry.

I hope to have the opportunity of personally welcoming you as a student of The New England College of Optometry. I am certain that you will find your educational experience and life in Boston most rewarding and enjoyable.

On behalf of The New England College of Optometry Board of Trustees, please accept our best wishes for success in your journey toward a professional career in optometry.



Sincerely,

*Joseph Bickford*

Joseph Bickford, O.D.

Chairman, Board of Trustees



## I. THE PROFESSION AND THE COLLEGE

Optometry began as a legally recognized health profession in the United States at the turn of the century. During the 1920s, a national optometric accrediting body was formed to evaluate educational programs and judge the quality of optometric education. This movement in optometric education closely paralleled similar developments in medical and dental education.

Specific prerequisites are required for admission, with most entering students having acquired a baccalaureate degree. The seventeen schools and colleges of optometry in the United States and Puerto Rico enroll approximately 1,300 students annually. All institutions offer academic programs which fulfill the requirements for the Doctor of Optometry (O.D.) degree, a prerequisite for licensure in every state. Individual states may impose their own additional requirements for licensure — such as state board written examinations, the National Board examination, and practical examinations in clinical optometry.

Most of the 30,000 practicing optometrists in the United States serve in private or group practice as primary eye care practitioners — diagnosing and treating visual problems, ocular disease, ocular manifestations of systemic conditions, and providing health counseling. Many optometrists practice in clinical settings or are involved in government service, industry, school consulting, teaching, or research.

The composition of the entering classes at colleges of optometry has changed dramatically during the past fifteen years. Greater diversity now exists in gender, ethnicity, citizenship, and age. Today, women comprise approximately one-half of the enrollment at The New England College of Optometry, and ethnic minorities and foreign students represent about one-quarter of the enrollment. The once relatively homogenous group of enrolled students has become a diverse population more reflective of the general college graduate population.

Among the professional organizations which serve the optometric profession and optometric education are: the American Optometric Association (AOA), the National Optometric Association (NOA), the American Academy of Optometry (AAO), and the Association of Schools and Colleges of Optometry (ASCO).



## MISSION OF THE NEW ENGLAND COLLEGE OF OPTOMETRY

The New England College of Optometry, a private and independent professional graduate institution, was founded in 1894 and is chartered by the Commonwealth of Massachusetts to grant the Doctor of Optometry degree. Located in Boston, a city of world-renowned cultural, educational and health care institutions, the College is committed to fulfilling the expectations of its academic environment and the public trust implicit in its charter.

The mission of The New England College of Optometry is to serve the optometric needs of the public by educating optometrists to the highest level of proficiency, integrity, and professionalism.

In achieving its mission, the College

- attracts and supports a faculty which excels at teaching and is committed to the growth and development of students;
- creates a dynamic environment which combines tradition and innovation, fosters intellectual inquiry, and supports research;
- serves the community by providing quality clinical vision care and educating the public about vision and eye health; and
- cultivates compassionate and ethical behavior, promotes life-long learning, and instills sensitivity to the health and social welfare of the community.

## THE HISTORY OF THE COLLEGE

The story of The New England College of Optometry begins in 1894 with the idea of Dr. August A. Klein "to create an institution which shall be purely optical in its achievement. . .to fill the gap between physician and optician. . ." A German-born ophthalmologist, Dr. Klein and three of his children would devote the next 50 years to nurturing what began as the Klein School of Optics. The mission of The New England College of Optometry has always had two central themes: serving the needs of the public and educating highly-competent practitioners. Guided by this philosophy, the College has made noteworthy contributions in its first 100 years.

The New England College of Optometry is the only optometry college in New England and has educated approximately 70% of the region's optometrists. The College has just completed the first stages of a \$6.5 million renovation of its century-old campus in Boston's Back Bay and has established its first substantial endowment, which reached \$5 million in 1995. The College has instituted the largest international optometric program in the world by developing extension programs, the first of their kind, with China, Italy, Spain, and South Africa.



During its first half-century, as optometry began to achieve acceptance, the school evolved accordingly. The course of study was expanded from a few months to one year, then two in 1909, three in 1934, and four in 1939. It became the first optometry college in the country to require five years of post-secondary education for the Doctor of Optometry degree, two pre-professional followed by three years of professional study. Today, the requirement is eight years of post-secondary education. The name changed in 1901 to the Massachusetts School of Optometry, in 1950 to the Massachusetts College of Optometry, and in 1976 to The New England College of Optometry to reflect its growing regional commitment.

In 1933, the College began its first external clinic with the Harry E. Burroughs Newsboys Foundation. The Massachusetts Optometric Clinic, opened in 1941 on Commonwealth Avenue, was the forerunner of today's fully-equipped New England Eye Institute, at 1255 Boylston Street. In 1942, the school began an externship with the Boston Evening Clinic, followed by similar programs in parochial schools, missions, neighborhood houses, and community centers. Early in the 1970s, the College established affiliations with Boston-area neighborhood health centers and government-affiliated hospitals. The elder eye care outreach program, begun in 1986, provides on-site services to senior housing developments. Today, the College's clinical programs extend to nearly 50 hospitals, medical centers, and private practices throughout the United States and three affiliations abroad.

With the 1946 death of Dr. Theodore Klein, son of the founder, the school ceased to be a private corporation. That year the Commonwealth granted a non-profit charter and the right to confer professional degrees. In 1947, the American Optometric Association's Council on Education and Professional Guidance fully accredited the College. The state enabled the school to grant a four-year Bachelor of Science degree and, the following year, the Doctor of Optometry and honorary Doctor of Ocular Science degrees.



During the late '60s, the College applied for federal assistance to strengthen the curriculum. It used the first grant, in 1967, to improve science courses and the next year became the first optometric college to become affiliated with a U.S. Public Health Hospital eye clinic. Around the same time, the curriculum changed to focus greater emphasis on biosciences, in keeping with the new state laws that expanded the scope of optometry in the diagnosis and management of ocular disease. Again in the vanguard, the College was the first to prepare optometrists for certification in the use of diagnostic pharmaceutical agents.

Named Acting President in 1989, Dr. Larry R. Clausen was inaugurated as President in 1990. In the ensuing years, he has led the College through its facility renovations, growth of the endowment program, extension of clinical programs to the homeless and to the elderly, and the advancement of the largest international program in optometry. Still dedicated to the mission of public service and education inspired by Dr. August Klein, Dr. Clausen, in concert with an active Board of Trustees chaired by alumnus Dr. Joseph Bickford, is committed to the continued expansion of that mission well into the next century.

## THE FACILITIES

The College's main classroom building and library are located on Beacon Street in Boston's historic "Back Bay" neighborhood. This beautiful section of the city was at one time a shallow bay. The bay was filled and the reclaimed land area was made available for new construction in the mid-1800s.

### Namias Hall

This building, located centrally at 424 Beacon Street and named after one of the College's most memorable professors, Dr. Foster Namias, was designed by J. H. Schweinforth and built in 1904. Its interior is distinguished by a spectacular four-story spiral staircase, capped by a circular stained glass window.

Namias Hall houses classrooms, a cafeteria, administrative offices, and many of the instructional laboratories. The College bookstore is located in this building and serves students and alumni in providing current texts in vision science and health care, as well as ophthalmic equipment.

### Saval Student Center

The Maurice H. Saval Student Center is named for Maurice H. Saval, former Chairman of the Board of Trustees and one of the College's most generous benefactors. The Center occupies the first floor of a building which was designed by Little and Brown and constructed in 1899. College admissions, the Vice President for Student and Alumni Affairs, Registrar, alumni relations, and student support staff are housed in the Saval Student Center, as is the Optometric Career Access Program, which provides support services to minority and disadvantaged students. Classrooms, laboratories, and faculty offices are located in the upper floors of this building.



*See other*



### The Library

The College Library building was constructed in 1894. It was the childhood home of Emily Sears, who later became Mrs. Henry Cabot Lodge. Its opulence reflects the tastes of the wealthy elite of Boston at that time. The interior is graced with hand carved wooden paneling, marble fireplaces, and hand painted gilt wall coverings.

The Library's collection consists of over 10,000 books and bound journal volumes on all aspects of optometry, vision science, and bioscience. The Library subscribes to 275 current journals including optometric, medical and basic science titles, state optometric society newsletters, and a small number of popular magazines. Over 300 audio-visual programs are available, in addition to a large collection of circulating slides showing a range of ocular conditions. The reserve and reprint collections support classroom assignments.

Students, faculty, and the optometric community may take advantage of a number of library services, both traditional and computerized. These include reference assistance and on-line search services. The Library, which is staffed by three professional librarians, support staff, and student assistants is open seven days a week during the academic year.

The Student Computer Center is also located in the Library and offers personal computers to support students' classroom and study needs. Small group lessons on the use of computers are available throughout the school year.



### **Dormitory/Housing**

The College dormitory is located at 418 Beacon Street, adjacent to the Library. The dormitory has both single and double rooms, available to male and female students. This facility provides housing for 20 to 25 students most of whom are first year students. In addition, the admissions office sponsors a housing clinic to help students secure off-campus housing.

### **The New England Eye Institute**

The New England Eye Institute (NEEI), located at 1255 Boylston Street, offers patients of all ages a comprehensive program of vision care. Services provided include comprehensive eye examinations, contact lenses, visual field testing, VDT and computer testing, low vision, vision therapy, treatment and management of ocular diseases, ocular photography, and ophthalmic dispensing. Clinical research is also conducted at NEEI.

The Contact Lens Service provides initial evaluation, lens fitting, follow-up visits, consultation for current contact lens wearers, and replacement lenses. An extensive inventory of contact lenses and lens care solutions are available including conventional soft contact lenses, rigid gas permeable lenses, disposable and planned-replacement lenses, cosmetic tint lenses, aphakic lenses, and lenses for patients who have keratonus.

The Vision Therapy Service provides comprehensive visual evaluations and therapy for conditions including visual skills, strabismus, amblyopia, and visual perceptual disorders.

The Low Vision Service provides vision care for those who, because of physical condition, age, accident, disease, or birth defect, have reduced vision which is not correctable by standard optical correction.

The Ocular Disease Service provides evaluation, treatment, and management of ocular diseases and ocular effects of systemic diseases. Visual field testing and ocular photography services are utilized to confirm or help diagnose the presence, severity, and progression of disease and to monitor the results of specific treatments.

NEEI's fully equipped, modern facility includes 20 examination rooms and special testing rooms equipped with the latest technology for the examination and treatment of visual and ocular conditions. The Institute provides an ophthalmic dispensing service with a full selection of modern eyewear.

### **ACCREDITATION**

The New England College of Optometry is a non-profit institution which is fully accredited by the Council on Optometric Education of the American Optometric Association and the New England Association of Schools and Colleges.



## II. ACADEMIC PROGRAMS

### THE GOAL OF OPTOMETRIC EDUCATION

Doctors of optometry are independent, health care providers who specialize in the examination, diagnosis, treatment, and management of diseases and disorders of the visual system, the eye and related structures, as well as the diagnosis of related systemic conditions as defined by the American Optometric Association (AOA). Optometric education comprises a broad-based curriculum founded in visual, biological and clinical sciences, and integrated through patient care experience.

The primary goals of the educational program at The New England College of Optometry are to prepare students to render the highest quality comprehensive ophthalmic and related systemic care by educating them to the highest level of proficiency, integrity, and professionalism; and to teach students to develop and apply the tools required for life-long learning. These goals include learning to diagnose and interpret or recognize early signs of ocular, neurological, behavioral, and systemic health problems for purposes of treatment, management, co-management, referral, and patient counseling.

The academic and clinical course of study prepares students to become doctors of optometry - individuals prepared to skillfully and confidently meet the ocular, visual, and other health related needs of their patients. Optometrists serve as primary eye care professionals ready to interact with other health care providers to improve the human condition.



## EDUCATIONAL OBJECTIVES

In keeping with the goals of optometric education, The New England College of Optometry has established twelve objectives for its educational programs

- to provide an educational environment which ensures intellectual growth and scholarly development;
- to develop an understanding and appreciation of the scientific methodology used to diagnose and treat human visual conditions;
- to provide education in the biological sciences to insure that graduates understand the mechanisms which affect both the normal and diseased human state;
- to provide education in the vision sciences to insure that graduates understand the mechanisms underlying normal and abnormal vision;
- to inculcate the knowledge, skills, and attitudes needed to diagnose, treat, or manage diseases of the visual system, ocular effects of systemic conditions, and high incidence diseases which may affect the visual system;
- to provide the student with comprehensive supervised clinical experiences so that the student will be able to make sound clinical judgments and provide the highest quality of care to patients;
- to familiarize the student with general and ocular emergency procedures;
- to provide the knowledge, skills, and attitudes that will enable the optometrist to serve as a community resource in matters of eye care, applied visual science, disease prevention, and some health practices;
- to educate the student about the proper management of patient problems by appropriate referral to a practitioner with advanced experience in such areas as low vision rehabilitation, and secondary (surgical) ophthalmic care;
- to provide students with a knowledge of health care policy, modes of health care delivery and practice management, and the skills needed to adjust to the changing health care environment;
- to develop an appreciation of systems for information access and the ability to critically assess new knowledge and research;
- to develop the fundamental skills and attitudes required for life-long learning and the maintenance of professional competence.



## THE FOUR-YEAR DOCTOR OF OPTOMETRY PROGRAM

The curriculum comprises courses in five departments: Vision Science and Public Health, Bioscience and Disease, Clinical Skills and Practice, Internal Clinical Programs, and External Clinical Programs. Each course is designed to achieve competencies required for the development of an optometric professional capable of managing conditions of the human eye and visual system.

The curriculum in vision science provides knowledge in optics and an understanding of the structure and function of the visual system. To that end, the content of the curriculum is presented within three general areas: optics, physiological optics, and ocular neuroscience.

Courses in public health and health care policy provide graduates with the understanding and skills necessary for keeping pace with the dynamic health care environment.

Courses in the biosciences and disease provide the student with an understanding of the normal and abnormal structure and function of the human organism. A background is provided in the fundamental anatomical, biochemical, and biophysical mechanisms; the physiological and pathological processes; and the diagnosis, treatment, and management of ocular disease and ocular manifestations of systemic disease.

Courses in Clinical Skills and Practice provide students with a background for the specific skills, clinical insights, and patient-management capabilities required of optometrists. The curriculum emphasizes general characteristics of human vision problems; measurement of the ocular refractive states; properties and use of ophthalmic lenses, devices and appliances; the assessment and treatment of binocular conditions; and the assessment and treatment of ocular disease in low vision patients.

Clinical experiences enable students to become competent optometric professionals who can integrate scientific knowledge with clinical insights to diagnose, treat, and manage visual and ocular problems and co-manage related systemic conditions. It begins in the lecture/laboratory setting during the first year, and progresses to direct patient care during the second, third, and fourth years. The preceptorship method is used throughout the program. It calls for close initial supervision by licensed faculty members, which is gradually relaxed as the student develops greater clinical proficiency and assumes more responsibility. The role of the preceptor slowly changes from that of a supervisor to that of a consultant. The experience of the final year is entirely clinical with the student being assigned to a diverse array of practice settings.

## PROFESSIONAL CURRICULUM

### Four Year Doctor of Optometry Program

Didactic courses are taught within the first three program years, with elective course elements supplementing core courses of the third year. The fourth year of the professional curriculum consists of individually assigned clinical rotations.

#### FIRST YEAR

##### Fall Quarter

TITLE	COURSE #	DEPARTMENT	CREDITS
Human Anatomy I	1011	Bioscience	4
Histology	1020	Bioscience	3
Molecular and Cellular Basis of Disease and Therapy I	1111	Bioscience	4
Geometric Optics	1411	Vis. Science	4
Theory and Methods of Vision Testing	1511	Vis. Science	3
Health Care in The U.S	1810	Vis. Science	2
Optometric Theory and Methods I	1711	Clinical Skills	5
		Quarter Credit Hours	25

##### Winter Quarter

Human Anatomy II	1012	Bioscience	3
Molecular and Cellular Basis of Disease and Therapy II	1112	Bioscience	2
Systems Physiology I	1121	Bioscience	4
Immunology	1130	Bioscience	2
Ophthalmic Optics	1412	Vis. Science	4
Visual Perception	1512	Vis. Science	3
Optometric Theory and Methods II	1712	Clinical Skills	5
		Quarter Credit Hours	23

##### Spring Quarter

Neuroanatomy	1013	Bioscience	4
Ocular Physiology	1113	Bioscience	4
Systems Physiology II	1122	Bioscience	4
Integrative Seminar I	1030	Bioscience	2
Mechanical Optics	1413	Vis. Science	2
Visual Optics	1513	Vis. Science	3
Optometric Theory and Methods III	1713	Clinical Skills	5
		Quarter Credit Hours	24

#### SECOND YEAR

##### Fall Quarter

TITLE	COURSE #	DEPARTMENT	CREDITS
Microbiology	1140	Bioscience	3
Special Topics in Optics	2414	Vis. Science	3

2

Neurophysiology of Vision	2520	Vis. Science	3
Visual Space Perception	2580	Vis. Science	3
Introduction to Ocular Disease I	2211	Clinical Skills	4
Introduction to Clinical Care I	2741	Clinical Skills	3
		Quarter Credit Hours	19

### Winter Quarter

General Pharmacology	2151	Bioscience	4
General Pathology	2221	Bioscience	3
Vision Testing and Diagnosis	2514	Vis. Science	3
Ocular Myology	2530	Vis. Science	3
Normal and Abnormal Development of Vision	2550	Vis. Science	3
Introduction to Ocular Disease II	2212	Clinical Skills	4
Introduction to Clinical Care II	2742	Clinical Skills	3
		Quarter Credit Hours	23

### Spring Quarter

Ocular Pharmacology	2152	Bioscience	3
Systems Pathology	2222	Bioscience	3
Environmental Optometry	2515	Vis. Science	3
Anomalies of Binocular Vision	2560	Vis. Science	3
Motor Anomalies of Vision	2590	Vis. Science	1
Contact Lenses I	2761	Clinical Skills	4
Introduction to Clinical Practice	2910	Internal Clinics	2
		Quarter Credit Hours	19

## THIRD YEAR

### Summer Quarter

TITLE	COURSE #	DEPARTMENT	CREDITS
Binocular and Accommodative Anomalies of Vision	2751	Clinical Skills	4
Patient Interviewing and Counseling	3781	Clinical Skills	1
Basic Clinical Practice I	3911	Internal Clinics	3
		Quarter Credit Hours	8

### Fall Quarter

Clinical Medicine I	3231	Bioscience	4
Ocular Disease Ia	3261	Bioscience	3
Practice Management I	3811	Vis. Science	2

Strabismus and Amblyopia	3752	Clinical Skills	4
Contact Lenses II	3762	Clinical Skill	4
Vision Rehabilitation	3771	Clinical Skills	2
Adult Psychology	3782	Clinical Skills	2
Basic Clinical Practice II	3912	Internal Clinic	3
		Quarter Credit Hours	24

**Winter Quarter**

Clinical Medicine II	3232	Bioscience	2
Neurological Dysfunction	3250	Bioscience	2
Treatment and Management of Ocular Disease I	3263	Bioscience	3
Ocular Disease Ib	3262	Bioscience	3
Geriatrics	3790	Bioscience	1
Practice Management II	3812	Vis. Science	2
Patient Psychology	3783	Vis. Science	1
Vision Rehabilitation Lab	3772	Clinical Skills	1
Basic Clinical Practice III	3913	Internal Clinics	3
		* Electives	2
		Quarter Credit Hours	20

**Spring Quarter**

Treatment and Management of Ocular Disease	3264	Bioscience	3
Pediatric Optometry	3753	Bioscience	4
Literature Research	3725	Vis. Science	2
Public Health	3820	Vis. Science	2
Basic Clinical Practice IV	3914	Clinic	3
		* Electives	2
Contact Lens Clinical Practice	3941	Clinic	2
		Quarter Credit Hours	18

**FINAL YEAR**

Clinical Practice	491X	External Clinic	20
	492X	External Clinic	20
	493X	External Clinic	20
	4942	Contact Lens Practice	4
		Total Credit Hours	64



## \*ELECTIVE COURSES

(a minimum of 4 units of electives are required in the Third Year)

Advanced Contact Lens Seminars	(2 credits)
Advanced Pediatric Optometry	(2 credits)
Advanced Photodocumentation	(1 credit)
Advanced Vision Rehabilitation	(2 credits)
Advanced Practice Management	(1 or 2 Credits)
Basic Small Business Accounting	(2 credits)
Behavioral Optometry	(1 credit)
Clinical Management of the Post-operative Cataract Patient	(1 credit)
Differential Diagnosis and Decision Making	(1 credit)
Electrodiagnosis	(2 credits)
Environmental Optometry	(1 credit)
Fabrication of Ophthalmic Materials	(1 credit)
Guide to Binocular Vision Problems	(1 credit)
Headache	(1 credit)
Introduction to Microcomputers	(1 credit)
Introduction to Ophthalmic Pathology	(2 credits)
Selected Topics in Problem-based Clinical Thinking	(1 credit)
Practice Management for Practitioners	
Bausch & Lomb University	(2 credits)

Elective Courses listed are subject to change depending on curricular needs and student interest.

## COURSE DESCRIPTIONS

### DEPARTMENT OF BIOLOGICAL SCIENCES AND DISEASE

**Human Anatomy I** (#1011) 4 credits  
(3 H. Lec.; 0.8 H. Lab.)

**Human Anatomy II** (#1012) 3 credits  
(3 H. Lec.)

**Human Anatomy I and II** presents gross anatomy as the basis for understanding clinical disease. Strong emphasis is placed upon the anatomy of head and neck. There is a thorough examination of the orbit and adnexa followed by detailed study of the gross and microscopic anatomy of the eye. Laboratory study including cadaver prosections supplements didactic content.

**Tissue and Organ Histology** (#1020) 3 credits  
(2.5 H. Lec.; 1 H. Lab.)

**Tissue and Organ Histology** provides the student with an understanding of the structure and function of human tissues and the roles these play within organs. Observations of specimens with the light microscope are organized around a laboratory manual designed to promote inquiry into the relationship between generalized types of tissues and ocular structure. The course analyzes disease-induced changes in structure and function. Lecture, discussion, and laboratory exercises stress concepts that provide a solid basis for understanding tissue alterations which occur in disease and tissue changes which may occur when certain pharmaceutical agents are administered.

**Molecular and Cellular Basis of Disease and Therapy I** (#1111) 4 credits  
(4 H. Lec.)

**Molecular and Cellular Basis of Disease and Therapy II** (#1112) 2 credits  
(2 H. Lec.)

**Molecular and Cellular Basis of Disease and Therapy I and II** presents selected topics in cellular physiology, biochemistry, and molecular biology. These courses are designed to provide the student with an understanding of biochemical mechanisms which underlie normal function, disease processes, and drug action. This course of study begins by emphasizing the hierarchical nature of disease, with symptoms at the apex and molecules at the base of a "disease pyramid". The course next explores the relationship between protein structure and function and considers biochemical basis of genetics, noting transfer of information from DNA to RNA to protein. The basis of viral infection and viral oncogenesis are studied. The course prepares the student for subsequent study of Ocular Physiology and provides the foundation for understanding pathophysiology and pharmacologic drug-receptor interactions.

**Ocular Physiology** (#1113) 4 credits  
(4 H. Lec.)

**Ocular Physiology** examines the biochemistry and the physiology of the eye. Study of the anterior segment includes eyelids, tears, cornea and aqueous humor, and intraocular pressure. Consideration of the posterior segment stresses lens, vitreous, and retina. The course examines ways by which the normal function of ocular tissues are commonly compromised in disease and notes clinical signs and symptoms which may result.

**System Physiology I** (#1121) 4 credits  
(4 H. Lec.)

**System Physiology II** (#1122) 4 credits  
(4 H. Lec.)

**Systems Physiology I and II** presents general concepts of human physiology and systems, including homeostatic mechanisms. Topics include blood; the cardiovascular system; lymphatics; the gastrointestinal system; nutrition; body fluids; renal physiology; endocrinology; physiology of respiration; hepatic and muscle physiology. Students are prepared to understand the basis of pathophysiological mechanisms in systemic and ocular disease. These courses provide the necessary background for subsequent studies of clinical medicine, pathophysiology, pharmacology, and ocular therapeutics.

**Immunology** (#1130) 2 credits  
(2 H. Lec.)

**Immunology** presents principles basic to understanding immune mechanisms which contribute to pathological processes. The role of both specific cells, such as B and T lymphocytes and antigen-presenting cells, and non-specific cells, such as natural killer cells, neutrophils, and macrophages in immunological reactions are explored. The genetic basis for immunological reactions driven by MHC (Major Histocompatibility Complex) molecules is emphasized. The critical roles of antigen-specific receptors, adhesion molecules, and soluble cell products (lymphokines/cytokines) are investigated. Other topics include generation of immunologic diversity, transplantation, the complement cascade, auto immunity, immunotherapy, and ocular immunology.





**Neuroanatomy** (#1013) 4 credits

(4 H. Lec.; 1 H. Lab.)

**Neuroanatomy** examines the gross anatomy of the central and peripheral nervous systems, support structures and membranes covering the central nervous system and the brains ventricular and vascular systems. All major neurological sub-systems are presented, with an emphasis upon visual ocular motor structure and function. Functional aspects of neuroanatomy and physiological correlates of neuroanatomical function are described. Mechanisms for information processing are analyzed. Special attention is afforded to those cranial nerves that contribute to visual functioning. Clinical cases are introduced to demonstrate relevance. Laboratory exercise include dissection of a sheep's brain, the study of human brain models, and examination of human neurological tissue.

**Microbiology** (#1140) 3 credits

(2 H. Lec.; 1 H. Lab.)

**Microbiology** provides the student with an understanding of the role of microbial agents in disease, the diagnosis of microbial disease, and pharmaceutical intervention in disease processes. Students develop an appreciation for the structure and functioning of those bacteria, viruses, fungi, chlamydia, and protozoa that are significant in disease. Interactions between host and microbe are analyzed in order to demonstrate mechanisms by which infectious disease is produced and can be combated through the use of an appropriate therapeutic agent.

**Integrative Seminar I** (#1030) 2 credits

This course uses a small group, Problem-Based Learning format with one faculty facilitator per six or eight students. The **Integrative Seminar** uses simulated patient encounters to facilitate the process of integrating key basic science concepts into the patient care process. Students are introduced to the process of clinical decision making and problem solving.

**General Pharmacology** (#2151) 4 credits

(3 H. Lec.)

**General Pharmacology** presents basic pharmacological principles including the actions and effects of drugs used to diagnose and treat disease, the clinical properties of widely-used systemic drugs, and the ocular and visual side effects of systemic medications in current clinical use.

**Ocular Pharmacology** (#2152) 3 credits

(4 H. Lec.)

**Ocular Pharmacology** deals with the properties, clinical attributes, and practical applications of pharmacological agents used in ophthalmic diagnosis and therapy. The course emphasizes the basic principles of ophthalmic pharmacology, and clinical application of drugs used in the diagnosis and treatment of ocular disease and ocular manifestations of systemic disease. Special attention is paid to practical matters, including contraindications, precautions, dosage, administration, side effects, drug interactions, and legal considerations related to use and prescription of ocular pharmaceuticals.



**General Pathology** (#2221) 3 credits  
(3 H. Lec.)

**General Pathology** provides students with an understanding of basic pathologic processes, such as cell injury, inflammation, and tumor development. It shows how pathological change becomes manifest in clinical disease. Classroom discussion is stimulated by a review of case studies.

**Systems Pathology** (#2222) 3 credits  
(2.5 H. Lec.; 1 H. Lab.)

**Systems Pathology** extends prior content by further utilizing microscopic examinations of tissue sections and studies of actual clinical cases to facilitate student understanding of ocular and systemic disease. Special effort is made to ensure that the student understands how therapeutic agents can be used to intervene in disease processes.

**Clinical Medicine I** (#3231) 4 credits  
(4 H. Lec.)

**Clinical Medicine II** (#3232) 2 credits  
(2 H. Lec.)

**Clinical Medicine I and II** is a two quarter course of study. Topics include atherosclerotic disease, hypertension, ischemic heart disease, heart failure, disorders of cholesterol metabolism, hematologic disease, neurologic disease, endocrine disease, rheumatologic and other systemic inflammatory disease, and common medical emergencies. Pathophysiological bases, signs and symptoms, methods of diagnosis, and practical aspects of management are emphasized. The course discusses screening methods for genetic and neoplastic disease, interpretation of common laboratory test results, protocols for patient referral, and potential for a disease to give rise to complications in response to the administration of certain ocular medications.

**Ocular Disease Ia and Ib** (#3261) 6 credits  
(1.5 H. Lec.; 2H. Seminar - 2 qtrs.)

This two course sequence utilizing a modified Problem-Based Learning format emphasizes understanding of ocular disease via the clear interpretation of pathophysiological mechanisms and clinical findings. Ocular disorders are discussed in terms of the following etiologic categories: vascular disorders including occlusion, stasis, and ischemias; degenerative disorders including disorders of development, dystrophies, and involutional changes; inflammatory disorders including infection, allergy, and auto immune disease; physical trauma including chemical injury, blunt trauma, other mechanisms; and neoplastic disorders including benign and malignant neoplasm of the internal and external segments. The small group sessions emphasize case analysis and management. An algorithmic approach to differential diagnosis is taught throughout the course.

**Neurological Dysfunction** (#3250) 2 credits  
(2 H. Lec.) (Half class, winter Y3; Half, spring Y3)

**Neurological Dysfunction** presents topics in the field of neurology, including transient loss of vision, eye pain, headache, optic nerve disease, supranuclear disorders of eye movement, and non-ocular neurological symptomology.

**Treatment and Management  
of Ocular Disease**

(#3263) 3 credits

(3 H. Lec.; 0.6 H. Lab.)

**Treatment and Management  
of Ocular Disease**

(#3264) 3 credits

(3 H. Lec.; 0.6 H. Lab.)

This two quarter advanced course in the ocular disease track presents the theoretical and practical aspects of ocular disease treatment and management. Course content includes treatment and management of diseases of the anterior and posterior segment, ocular adnexa and glaucoma; appropriate use of non-optometric consultation and referral.

**Pediatric Optometry**

(#3753) 4 credits

(4 H. Lec.)

**Pediatric Optometry** addresses assessment methods and treatment procedures appropriate for use with children. It considers psychosocial issues relevant to interactions with children and their families. Techniques for assessing visual status and ocular integrity of infants, preschool children, and school age children are taught. Parameters measured or assessed include visual acuity, refractive error, and binocular vision status. The role of the optometrist in the diagnosis and clinical management of children with learning or developmental disabilities is discussed. Ocular disease in the pediatric population is surveyed.

**Geriatrics**

(#3790) 1 credit

(1 H. Lec.)

**Geriatrics** provides the student with the knowledge, understanding, and sensitivity needed to provide proper care to the elderly. Topics include history and demographics, the biology of aging, clinical presentation of illness among the elderly, and senescent cognitive impairment. Political and economic aspects of health care, including long-term elder care, special problems encountered among elderly patients who are taking multiple medications, and ethical aspects of geriatric care are emphasized.

## **DEPARTMENT OF VISUAL SCIENCES AND PUBLIC HEALTH**

**Geometric Optics**

(#1411) 4 credits

(3 H. Lec.; 1 H. Lab.)

In **Geometric Optics** the following topics are presented: image formation by reflection and refraction in mirrors, lenses and prisms; analysis of thin lens combinations and thick lenses in terms of cardinal points; limitation of rays by apertures; aberrations of optical systems; and the theory of optical instruments.

**Theory and Methods of**

**Vision Testing**

(#1511) 3 credits

(3 H. Lec.; 0.4 H Lab)

Psychophysical methods underlie many vision tests. **Theory and Methods of Vision Testing** presents the techniques used for obtaining quantitative information from a human observer. Classical and modern techniques of threshold measurement are discussed, as well as contemporary signal detection theory. Light detection, color vision, as well as spatial and temporal parameters affecting vision and vision testing are discussed.

**Ophthalmic Optics** (#1412) 4 credits  
(4 H. Lec.; 1 H. Lab.)

In **Ophthalmic Optics**, optical principles are applied to the study of ophthalmic lenses including spheres, cylinders, prisms, multifocal lenses, and contact lenses. Design parameters for ophthalmic lenses and applications to the correction of vision defects are discussed.

**Visual Perception** (#1512) 3 credits  
(3 H. Lec.)

**Visual Perception** provides the student with an understanding of complex visual stimuli and complicated viewing conditions, and visual information processing. The topics include size and distance perception, motion perception, direction perception, and visual plasticity. There is also a discussion of the relevance of non-visual factors such as attention and memory on visual perception. Included in the later is a discussion of perceptual factors in reading.

**Visual Optics** (#1513) 3 credits  
(3 H. Lec.; 0.5 H. Lab.)

**Visual Optics** examines the eye as an optical instrument. Topics include optical and physical constants of the eye, theoretical aspects of refractive error, optical aspects of accommodation, and the pupil as a limiting aperture. The Von Seidel aberrations of the eye are discussed as are ocular depth-of-focus and depth-of-field. The optical principles of ophthalmic instruments and their application to clinical practice and research are presented.

**Mechanical Optics** (#1413) 2 credits  
(1 H. Lec.; 1 H. Lab.)

In **Mechanical Optics**, lectures and laboratory exercises are used to teach the clinical aspects of the fitting and adjusting of ophthalmic lenses and frames. Students learn ophthalmic frame material selection and ordering, as well as pertinent details concerning all ophthalmic lenses currently available, including inspection and verification procedures of ophthalmic prescriptions. Special procedures, such as those related to patients requiring high power lenses, as well as the optometric approach to helping the ptosis patient, are also included.





**Health Care In The U.S.** (#1810) 2 credits  
(2 H. Lec.)

This course presents the **Health Care** system in the United States and the optometrist's relationship to it through the disciplines of history, economics, geriatrics, law, and ethics.

**Special Topics in Optics** (#2414) 3 credits  
(3 H. Lec.; 1 H. Lab.)

**Special Topics in Optics** present information on advanced ophthalmic optics and physical optics including the optical characteristics of strong lenses and progressive addition lenses, scattering and absorption of light, especially by the eye and ophthalmic appliances. Wave properties of light including optical polarization, interference, and diffraction and their practical significance, and quantum properties of light including photochemical reactions, and black body absorption and emission of visible radiation are discussed.

**Neurophysiology of Vision** (#2520) 3 credits  
(3 H. Lec.)

**Neurophysiology of Vision** provides an introduction to the neural functioning of the visual system. Topics include transduction, encoding and transmission of information by single neurons, brain processing of visual information and neural mechanisms that underlie specific aspects of human vision.

**Ocular Myology** (#2530) 3 credits  
(3 H. Lec.)

**Ocular Myology** deals with anatomical, physiological, neuropharmacological, mechanical, and cybernetic properties related to extraocular muscles, intraocular muscles, and ocular adnexa. It also considers kinematics. Ocular myology provides the student with the knowledge needed to understand normal and abnormal functioning of the oculomotor system, pupil, and accommodation.

**Normal and Abnormal Development of Vision** (#2550) 3 credits  
(3 H. Lec.)

**Normal and Abnormal Development of Vision** deals with the development of vision in infants and the biological maturation underlying this development. The effects of unusual environmental factors, such as pattern deprivation and strabismus upon parameters such as ocular refraction, visual acuity and binocular vision are examined. Clinical manifestations of abnormal visual development are discussed.

**Vision Testing and Diagnosis** (#2514) 3 credits  
(3 H. Lec.; 0.6 H. Lab.)

**Vision Testing and Diagnosis** builds on the materials presented in **Vision Testing Theory and Methodology**. Topics include the properties of the retinal photoreceptors, light and dark adaptation, spatial and temporal aspects of vision including contrast sensitivity and deLange functions. Current research is discussed so as to develop an understanding of the use of subjective vision tests in the diagnosis of visual pathology and functional anomalies. Additional material is presented covering entoptic visual phenomena.



**Anomalies of Binocular Vision** (#2560) 3 credits  
(3 H. Lec.; 0.6 H. Lab.)

**Anomalies of Binocular Vision** begins with the discussion of accommodative and convergence functions, and the interaction between them. It then addresses the pathophysiology of common nonstrabismic anomalies of binocularity. The use of fixation disparity analysis, graphical analysis, functional analysis, systems analysis, and transient/sustained analysis are presented. Also discussed is the physiological basis of optical and vision testing procedures on nonstrabismic accommodative convergence anomalies.

**Environmental Optometry** (#2515) 3 credits  
(3 H. Lec.; 0.2 H. Lab.)

**Environmental Optometry** progresses from a presentation of the theory of measurement of light and color to the application of these measurements for comfort and safety, for vocational counseling, and for the differential diagnosis of congenital and acquired color vision defects. There is a particular emphasis on the study of patient problems with video display terminals and of the role of ambient radiation in the etiology of ophthalmic conditions.

**Visual Space Perception** (#2580) 3 credits  
(3 H. Lec.; 0.2 H. Lab.)

This course presents elements of binocular vision and space perception critical to understanding the clinical conditions of strabismus, amblyopia, and aniseikonia. Topics include oculocentric and egocentric localization, empirical depth clues, binocular retinal correspondence, the horopter, Panum's fusional area, sensory fusion, binocular rivalry, stereopsis, stereo acuity, neurophysiological aspects of binocular vision, and the sensory anomalies associated with strabismus, amblyopia, and aniseikonia.

**Motor Anomalies of Vision** (#2590) 1 credit  
(2 H. Lec.)

**Motor Anomalies of Vision** presents methods used to evaluate the integrity of the nerve supply to the eye. Its scope embraces assessment of the sensory nerves including the optic nerve, parts of the ophthalmic and maxillary divisions of the trigeminal nerve, and the labyrinthine division of the acoustic nerve. Evaluation of the motor supply to the eye and its adnexae including somatic control by the oculomotor, trochlear, abducens, and facial nerves and autonomic control is discussed.

**Practice Management I** (#3811) 2 credits  
(2 H. Lec.)

**Practice Management II** (#3812) 2 credits  
(2 H. Lec.)

This two course sequence considers administrative, economic, legal, and social aspects of optometric practice. Topics in **Practice Management I** emphasize the transition from school to practice including practice options, goal setting, and choosing a practice location. Contract elements are discussed including partnership, purchase of a practice and employment. Finding employment, job interviewing skills, and resume writing are demonstrated. The elements of a business plan and business ethics will be developed.

**Practice Management II** considers the planning and development aspects of entering practice. A timetable for starting practice will be individually developed. Topics include buying and valuing practices, third party payment plans, malpractice and liability insurance, and office computerization and recall procedures. A practical office analysis and visitation is required.

**Adult Psychology** (#3782) 2 credits  
(2 H. Lec.)

**Adult Psychology** presents the relationship of adult development to primary care optometry. Concepts and techniques are taught to enable the optometrist to effectively respond to patients with vision loss and or such mental health issues as alcohol abuse, drug abuse, depression, suicidal tendencies, schizophrenia, and organic brain syndrome.

**Patient Psychology** (#3783) 1 credit  
(0.8 H. Lec.; 0.2 H. Lab.)

**Patient Psychology** teaches methods for educating and counseling the optometric patient and his family. Advanced concepts and techniques for delivering “bad news” about vision are presented. The course is intended to enable the practitioner to cope better with difficult interactions with the patient or the patient’s family. Oral and written communication skills are developed through videotaped role-playing and through written assignments directed toward patient education.

**Public Health** (#3820) 2 credits  
(2 H. Lec.)

The end of the 20th century has witnessed a surge of precedents in the way health care is delivered and the way optometrists practice in the community and health care system. As participants in health care, health insurance, managed care, and government regulations, entry level optometrists need certain analytical skills to survive in the changing clinical and economic conditions. This course provides optometry students with basic quantitative skills in biostatistics and epidemiology, so they can critically analyze clinical and public health research reports. Through case studies in health care reform, quality assurance, ophthalmic epidemiology, and vision screening, students learn to analyze and articulate strengths and weaknesses of reports and proposals that effect patient care and public health.

**Literature Research** (#3725) 2 credits

Each student is required to submit a paper on a topic related to clinical science or to some practical aspect of optometry. Each student works independently with the guidance of a faculty advisor. A computer search of the literature under the direction of library staff is required. **Literature Research** prepares the students to contribute to the profession of optometry through publication in scientific and professional journals.

DEPARTMENT OF CLINICAL SKILLS AND PRACTICE

**Optometric Theory and Methods I** (#1711) 5 credits  
(4 H. Lec.; 2 H. Lab.)

**Optometric Theory and Methods II** (#1712) 5 credits  
(4 H. Lec.; 2 H. Lab.)

**Optometric Theory and Methods III** (#1713) 5 credits  
(4 H. Lec.; 2 H. Lab.)

**Optometric Theory and Methods** is a team-taught three quarter sequence which introduces the student to basic optometric theory and clinical techniques used in the examination of patients. Topics include objective and subjective methods to evaluate refractive, binocular, accommodative, and ocular health status. Students are given an introduction to optometric case analysis using the principles of the problem-oriented examination.

**Introduction to Clinical Care I** (#2741) 3 credits  
(4 H./week)

**Introduction to Clinical Care II** (#2742) 3 credits  
(4 H./week)

This two course sequence utilizes the Problem-Based Learning format and laboratory exercises to develop the student's ability to perform an accurate and efficient optometric examination. Students learn to analyze data and to design patient treatment and management options. Students are also introduced to ophthalmic dispensing in the clinical setting. The courses are designed to support the students' transition from pre-clinical course work to direct patient care.

**Introduction to Ocular Disease I** (#2211) 4 credits  
(3 H. Lec.; 2 H. Lab.)

**Introduction to Ocular Disease II** (#2212) 4 credits  
(3 H. Lec.; 2 H. Lab.)

This two quarter sequence provides the foundation for the differentiation of normal and abnormal presentations of the eye and ocular adnexae. This is achieved by ensuring that the student applies basic science concepts in learning the clinical process of diagnosing ocular disease. Laboratory sessions teaches the student how to perform and interpret clinical techniques used to assess ocular health status.

**Binocular and Accommodative of Vision** (#2751) 4 credits  
(3 H. Lec.; 1 H. Lab.)

**Binocular and Accommodative Anomalies of Vision** begins with a historical review of orthoptics, followed by conceptual and functional definitions of vision therapy. Three primary areas discussed in this course include: ocular motor, accommodative and binocular visual dysfunction and their remediation. Students are taught how to design and implement vision therapy programs. Laboratory exercises provide hands-on experience with relevant diagnostic and therapeutic procedures.



**Contact Lenses I** (#2761) 4 credits  
(3 H. Lec.; 3H. Lab)

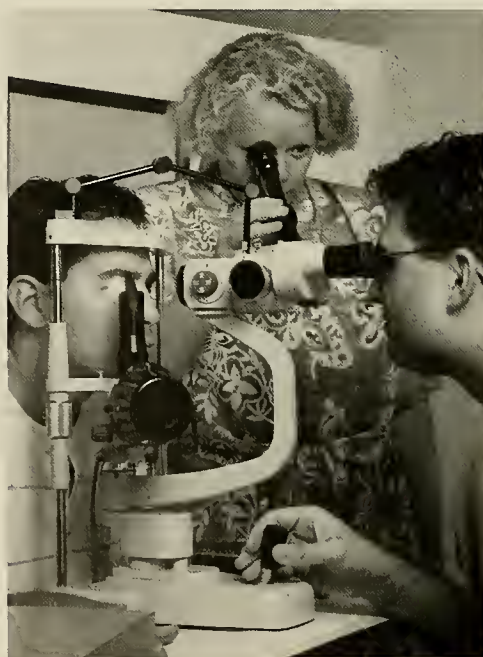
**Contact Lenses I** provides an introduction to contact lens care with topics covering the history of contact lenses, relevant aspects of anterior segment anatomy and physiology, topography of the cornea, physical structure and optical characteristics of contact lenses, terminology used in contact lens practice, and principles applicable to the fitting of rigid lenses. Laboratory exercises provide hands-on experience in the verification, modification, fitting, and care of rigid contact lenses.

**Clinical Management of Strabismus and Amblyopia** (#3752) 4 credits  
(3 H. Lec.; 1 H. Lab.)

This course provides an organized approach to the clinical evaluation and management of patients with strabismus and/or amblyopia. Included are considerations of the etiology, signs and symptoms, natural history, practical significance, and clinical management of comitant esotropia, comitant exotropia, and noncomitant strabismus. Associated anomalies discussed include eccentric fixation, anomalous retinal correspondence, ocular suppression, and abnormalities of the accommodative-vergence relationship. The laboratory component provides hands-on experience with relevant diagnostic and treatment procedures.

**Contact Lenses II** (#3762) 4 credits  
(3 H. Lec.; 3 H. Lab.)

**Contact Lenses II** presents topics of contact lens solutions and their applications, tissue complications of contact lens wear, the fitting of rigid gas permeable lenses and soft lenses, and principles and regimens of appropriate follow-up care. Students also learn procedures, advantages, complications, and limitations associated with extended wear lenses and are introduced to special problems that attend the fitting of aphakic, presbyopic, and keratoconic patients. Laboratory exercises provide hands-on experience in the fitting and care of soft contact lenses, examination techniques to identify contact lens complications, and case analysis.



**Vision Rehabilitation**

(#3771)

2 credits

(2 H. Lec.)

**Vision Rehabilitation** discusses the epidemiology of visual impairment, functional effects of ocular disorders, principles of magnification, low vision examination techniques, and patient education and training in the use of low vision devices. Emphasis is placed on the psychological and psycho-social aspects of the visually impaired patient. The interdisciplinary approach to treatment and management is also stressed.

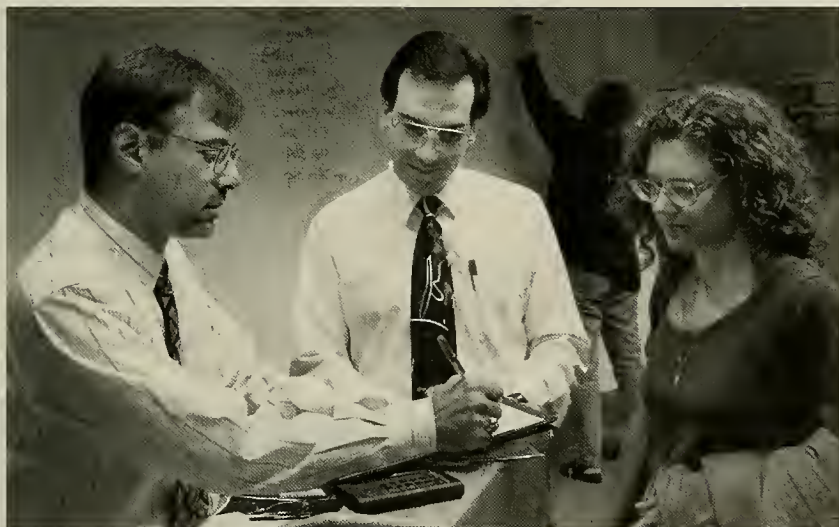
**Patient Interviewing  
and Counseling**

(#3781)

2 credits

(0.6 H. Lec.; 1.4 H. Lab.)

**Patient Interviewing and Counseling** deals with the optometrist-patient relationship. It discusses the proper approach to obtaining an optometric case history. Interviewing skills and counseling strategies are taught. Students are introduced to approaches for handling the more difficult forms of optometrist/patient interaction. Individual communication skills are enhanced through the use of feedback provided by videotapes of student/patient interview role-playing episodes, and preparing written correspondence to a patient.



**DEPARTMENT OF INTERNAL CLINICS**

**Introduction to Clinical Practice** (#2910) 2 credits  
(4 H. Clinic/week)

**Introduction to Clinical Practice** introduces students to clinical patient care under the direct supervision of licensed clinical faculty. Emphasis is placed on accurate and efficient examination procedures, record keeping, clinical protocols, and interpersonal skills.

**Basic Clinical Practice I** (#3911) 3 credits  
(2 weeks of clinic)

**Basic Clinical Practice II** (#3912) 3 credits  
(6 H. clinic/week)

**Basic Clinical Practice III** (#3913) 3 credits  
(6 H. clinic/week)

**Basic Clinical Practice IV** (#3914) 3 credits  
(6 H. clinic/week)

**Contact Lens Practice** (#3941) 2 credits

Clinical training is conducted at college-based clinics during the third year. Fewer difficult cases are encountered and significantly less ophthalmic disease is seen among this patient population, compared to most external clinical populations presented to fourth year students. Individual student responsibility increases as clinical insight and proficiency develop throughout the third year. Nevertheless, changes in individual student prerogatives and responsibility occur only to the degree that is commensurate with the student's demonstrated ability.





## FINAL PROFESSIONAL YEAR

The final year of the Professional Curriculum consists of individually assigned clinical rotations. A minimum of thirty-six weeks of clinical experience is completed by each student.

### The Clinical System

The clinical education of optometric students is one of the most important aspects of optometric education. The College has available approximately fifty clinical settings for the clinical training of its students. These sites are comprised of a variety of college-based (internal) and external affiliated programs.

#### Internal clinical programs include:

The New England Eye Institute of The New England College of Optometry, Boston, MA

- Primary Care Service providing basic optometric examinations, ophthalmology consultation services, ocular photography services, and visual fields clinic
- Pediatrics and Vision Therapy Service
- Contact Lens Service
- Low Vision Rehabilitation Service
- Specialty Services: Electrodiagnosis, Color Vision Testing, VDT Clinic
- Dispensary Services

Community Outreach Programs (Home Eye Services and Screening Programs)

Homeless Veterans Eye Clinic, VA Shelter for Homeless Veterans, Boston, MA



## DEPARTMENT OF EXTERNAL CLINICS

External affiliated clinical centers include:

Barnet Dulaney Eye Center, Phoenix, AZ  
Bolling AFB, Washington, D.C.  
Braverman Eye Center, Hallandale, FL  
Brighton Marine Health Center, Brighton, MA  
Brooke Army Medical Center, San Antonio, TX  
Capital Eye Consultants, Fairfax, VA  
Cataract and Laser Institute, San Antonio, TX  
The Cotting School, Lexington, MA  
Dimock Community Health Center, Roxbury, MA  
Dorchester House Multi-Service Center, Dorchester, MA  
East Boston Neighborhood Health Center, East Boston, MA  
The Eye Foundation of Utah, Murray, UT  
45th Field Hospital, Vicenza, Italy  
Geiger-Gibson Health Center, Dorchester, MA  
Hadassah Hospital, Jerusalem, Israel  
Indian Health Services, (IHS)  
IHS Albuquerque Indian Hospital, Albuquerque, NM  
IHS - Santa Fe, Santa Fe, NM  
Inter-American University, San Juan, Puerto Rico  
Joslin Diabetes Center/Beetham Eye Unit, Boston, MA  
Kaiser Permanente, Washington, DC  
Lahey Clinic Medical Center, Burlington, MA  
Leahey Eye Clinic, Inc., Lowell, MA  
Martha Eliot Health Center, Jamaica Plain, MA  
Naval Hospital, Ceiba, Puerto Rico  
Naval Hospital, Groton, CT  
Naval Hospital, Newport, RI  
Naval Hospital, Patuxent River, MD  
New England Eye Institute, Specialty Clinic, Boston, MA



North End Community Health Center, Boston, MA  
OMNI Eye Services of Atlanta, Atlanta, GA  
OMNI Eye Services of Baltimore, Baltimore, MD  
OMNI Eye Services of New Jersey, Iselin, NJ  
Perkins School for the Blind, Watertown, MA  
South Boston Community Health Center, South Boston, MA  
South End Community Health Center, Boston, MA  
University of Waterloo School of Optometry, Waterloo, Ontario, Canada  
Upham's Corner Health Center, Dorchester, MA  
VA Medical Center/Baltimore-Fort Howard, Baltimore, MD  
VA Medical Center/Bedford-Edith Nourse Rogers Memorial Hospital, Bedford, MA  
VA Medical Center, Brockton, MA  
VA Medical Center, Fresno, CA  
VA Medical Center, Lowell, MA  
VA Medical Center, Manchester, NH  
VA Medical Center, Montrose, NY  
VA Medical Center, Newington, CT  
VA Medical Center, Northampton, MA  
VA Medical Center/Eastern Blind Rehabilitation Center, West Haven, CT  
VA Medical Center, Portland, OR  
VA Medical Center, Providence, RI  
VA Medical Center, West Roxbury, MA  
VA Medical Center, Worcester, MA  
VA Outpatient Clinic/Eye Clinic, Boston, MA  
Vision Institute of Canada, North York, Ontario, Canada  
Washington Navy Yard Branch Medical Clinic, Washington, DC  
Western Massachusetts State Hospital, Westfield, MA





## GENERAL INFORMATION ON SPECIAL ACADEMIC PROGRAMS

### The Accelerated O.D. Program

The Accelerated Doctor of Optometry program provides an accelerated education for qualified candidates with an earned doctorate in one of the biological, behavioral or physical sciences, or a doctoral level health profession degree. Graduates receive the degree Doctor of Optometry (O.D.) and are prepared to enter the profession in clinical practice, optometric education, or research. The program is comprised of eight consecutive quarters (24 months), beginning in late May or early June.

### Advanced Standing for Graduates from Foreign Optometry Schools

The New England College of Optometry, through its Center for the International Advancement of Optometry, offers advanced standing to applicants who are graduates of foreign optometry programs.

To be eligible for the Advanced Standing International Program, applicants must have graduated from a school of optometry recognized by the World Council of Optometry (WCO) with at least a three-year course of study. In addition, applicants must have at least two years of full-time optometry-based experience after graduation, and this experience must have occurred within the four years prior to application.

The current core curriculum for the Program is designed to supplement and complement the student's previous education and experience. The previous education of each student is assessed and appropriate modifications made to ensure that students graduating from the Advanced Standing International Program have the same requisite entry-level competencies as other students receiving the Doctor of Optometry degree from the College.

### Special Emphasis Program for Graduates of Foreign Optometry Schools

The New England College of Optometry offers several other programs through the Center for the International Advancement of Optometry. These include the Certificate of Advanced Study (CAS) and the Visiting Scholars Program.

The Certificate of Advanced Study was established in 1993 for foreign optometry graduates to engage in concentrated study in a specific topical area. Courses of study may include primary care, contact lenses, rehabilitative optometry, and ocular disease. Courses are directly drawn from the courses in the four year Doctor of Optometry program at the College. The CAS is a non-degree program.

✓  
The Visiting Scholars Program was developed for faculty/health care professionals from other institutions to allow them to participate in custom designed studies at The New England College of Optometry. The goals of the program are to develop highly trained faculty to assist in the development and implementation of optometry programs in their home countries.

### Postgraduate Clinical Programs

The College offers eleven post-doctoral residency programs. These programs are for the graduate optometrist who desires more advanced training in clinical care.

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Residency programs are offered in conjunction with the Department of Veterans Affairs Medical Centers and Outpatient Clinics, co-management centers throughout New England, and the Boston neighborhood health centers. Areas of emphasis include Hospital Based and Rehabilitative Optometry, Secondary Ophthalmic Care, Advanced Diagnostics, Primary Care and Community-Based Optometry. A total of 23 residency positions were in place in 1995.

Applicants for residency positions should be graduates of an accredited school or college of optometry, have excellent scholastic records, strong clinical performance and an interest in clinical education, research, or advanced patient care.

Interested graduates should direct their inquiries for more information to the College's Director of Residencies.

### Center for Continuing Education

The College considers continuing optometric education to be a major professional responsibility and is dedicated to serving the needs of optometric practitioners throughout their careers. The mission of the Center is to serve the profession as the definitive source of postgraduate clinical education by providing expert leadership and innovation in the organization and delivery of programs which will enhance the knowledge and skills of optometrists.

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Courses, seminars, lectures, and hand-on workshops are offered through the College's Center for Continuing Education to keep optometric practitioners current with advances in the practice of optometry. Interactive and grand-rounds programs are presented as adjuncts to certain lecture programs, giving the practitioner an opportunity to examine patients and directly learn from ophthalmic experts using the latest diagnostic and therapeutic techniques available in a clinical setting. Programs are offered in New England, other parts of the country, and internationally with the cooperation of local optometric societies and other colleges of optometry.

The New England College of Optometry is a recognized provider of continuing education by all states having continuing education requirements and by the American Optometric Association.



### III. ADMISSION TO THE COLLEGE

#### ADMISSION POLICIES

The New England College of Optometry seeks to admit students who are firmly committed to, and have a sound aptitude for, improving the human condition through the profession and practice of optometry. Our admissions process is based upon evaluating the academic and non-academic qualifications and characteristics of applicants. While we look for students with science aptitude, we recognize that excellent academic performance in other subject areas is also an important indication of success in the academic program.

Factors the College examines to determine a candidate's status include:

- undergraduate grade point average and course content
- recommendations by Pre-health Advisory Committee or other faculty familiar with the applicant's work
- Optometry Admissions Test (OAT) scores
- competitiveness of undergraduate schools attended
- ability to communicate and articulate
- personality and demeanor
- extra-curricular activities
- Scholastic Aptitude Test scores

The ability of an individual to perform competently and maturely as a professional optometrist cannot be measured solely by quantified academic achievement. In an effort to ensure that students accepted at The New England College of Optometry will succeed both in their studies at the College and in the profession of optometry, consideration is given to those candidates who demonstrate a:

- commitment to learning
- high sense of social concern and ethics
- respect for human dignity
- strong motivation to become an optometrist
- understanding of the social obligations of health professionals

Therefore, beyond demonstrated academic performance, the admissions evaluation includes a careful reading of recommendations and essays submitted with the application. A vital factor in the application process is the required admissions interview where an assessment is made of such qualities as:

- motivation
- personality
- the ability to verbally articulate and communicate
- demeanor
- leadership potential

It is by careful examination of the above elements that The New England College of Optometry seeks to select for admission those individuals who have the highest potential for academic success in the optometric curriculum, and who can best represent the College and the profession as practicing optometrists.

### Undergraduate Preparation

Applicants to the four-year Doctor of Optometry Degree Program need to demonstrate at least three years of undergraduate preparation or the credit hour equivalent. Within this period of study the student should have completed the following specific number of courses:

	Semester		Quarter
Chemistry (with lab) .....	2	or	3
Organic Chemistry (with lab) .....	1	or	2
Biology (with lab) .....	2	or	3
Microbiology .....	1	or	2
Mathematics (including calculus) .....	2	or	3
Physics (with lab) .....	2	or	3
English .....	2	or	3
Psychology .....	1	or	2
Humanities .....	4	or	6
Social Sciences .....	4	or	6

One semester or two quarters of statistics is strongly recommended.

Approximately 90% of the students recently admitted to the College have earned a bachelors degree. Students who have not earned a bachelors degree may be granted the Bachelor of Science degree by the College, provided they have completed twelve semester hours of humanities, twelve semester hours of social sciences, and have met other requirements set forth by the College.

Eligible veterans are especially encouraged to apply for admission. The New England College of Optometry is approved for study under Public Law 348. Veterans covered by this law are expected to pay all charges in the same manner as non-veterans.



## THE ADMISSIONS PROCESS

The College utilizes a rolling admissions process, in that applications are considered continuously throughout the admissions period. Using prior experience as a guide, comparative standards for the new class are established early in the process. Once an application is complete and has been reviewed by the Committee on Admissions, the applicant will either be invited for an interview at the College or advised of failure to meet the admissions standards. In unusual circumstances, and with prior approval of the Vice President for Student and Alumni Affairs, the personal interview can be arranged at an off-campus site. No application will be considered complete, and no admissions decision will be made, without the personal interview.

Following the interview, candidates will be informed within two or three weeks of the Committee on Admissions decision. Once accepted, a \$500 non-refundable deposit will be required to secure a seat in the entering class.

An applicant accepted for admission must resolve all academic deficiencies prior to the year of entry. The College reserves the right to withdraw any acceptance offered if an incoming student has not satisfactorily completed the prerequisite courses.

Some applicants may be asked to accept waiting list status. Placement on the waiting list is considered when the applicant demonstrates strength in meeting admissions standards, but presents qualifications which are judged to be lower than successful applicants. Upon notification, candidates must signify in writing their acceptance of "waiting list" status if they wish to remain in active consideration.

### The Complete Application

Applications are accepted starting August 1 prior to the year of desired admission. There is no deadline for completing application files, but due to the competitive admissions process, applicants are urged to have their files completed by March 31. The likelihood of admission into the program beginning in the same calendar year is reduced after this date.

### The following credentials constitute a complete application file:

- 1 A completed application form, accompanied by a non-refundable fee of \$50 payable to the College. Only personal checks drawn on United States banks, money orders, travelers or cashier's checks will be accepted.
- 2 Complete **official** transcripts from each high school and college attended. A **final** transcript will be required of all applicants after admission into the program in order to verify completion of academic requirements.
- 3 Official results of the Optometry Admissions Test (OAT). Contact the Optometry Admissions Testing Program, 211 East Chicago Avenue, Chicago, IL, 60611 or call (312) 440-2693.



- 4 Official results of all other standardized tests, such as SAT, CEEB, Achievement, GRE, Advanced Placement Tests, etc. These are usually included in high school or college transcripts but, if lacking, must be forwarded to the College. For applicants whose pre-optometry education was not in English, an official transcript of the Test Of English as a Foreign Language (TOEFL) is required. The Test of Spoken English (TSE) may also be required.
5. A professional recommendation from the Pre-health Advisory Committee. This is a composite evaluation from faculty at an undergraduate college or university. If a school does not have such a committee, at least two letters of recommendation from faculty members may be substituted. Personal recommendations are not required, but may be submitted.

All material submitted becomes the property of the College. It will be respected for confidentiality and will not be returned or forwarded under any circumstances. Under special circumstances, the Admissions Committee may waive submission of some credentials listed above.

### **The Interview**

Once the above materials have been submitted, promising applicants will be invited to the College for an interview. If such a visit is an extreme financial hardship for the candidate, a request for an off-campus interview may be submitted. We prefer all candidates visit the College for a personal interview. This affords the candidate the opportunity to assess the College, its facilities, environment, and surroundings.

## **ADDITIONAL ADMISSIONS POLICIES FOR THE ADVANCED STANDING INTERNATIONAL PROGRAM FOR GRADUATES OF FOREIGN OPTOMETRY SCHOOLS**

Applicants to the Advanced Standing International Program must have successfully completed study at a recognized non-U.S. optometry school. The optometry program must be at least three years in length. In addition, they need to have at least two years of post-graduate experience in clinical practice or in research and teaching.

For applicants who have attended institutions where teaching is not in English, the TOEFL examination (Test Of English as a Foreign Language) is required to demonstrate a working knowledge of English. A minimum score of 550 is expected. The Test of Spoken English (TSE) may also be required.

Applicants from countries with which we have had no previous experience will be expected to submit their transcripts and course work to the World Education Service for course and grade evaluation.

The Optometric Practice Experience Questionnaires must be completed for the optometric positions the applicant has held from the time the individual graduated from their optometric program. A curriculum vitae is also required with the application.

## **ADDITIONAL ADMISSIONS POLICIES FOR THE ACCELERATED DOCTOR OF OPTOMETRY PROGRAM**

Applicants to the Accelerated Doctor of Optometry Program must hold an earned doctorate in one of the biological, behavioral or physical sciences or a doctoral level health profession degree.

In reviewing the credentials of applicants, the Admissions Committee examines the level of academic and professional achievement and motivation for an optometric career. Occasionally, additional study is recommended prior to admission for those lacking background course work in certain basic sciences.

## **REAPPLICANTS**

The College retains all application files for one year. Should an unsuccessful candidate wish to reapply, a reapplication form must be submitted. There is a \$50 reapplication fee. All transcripts and recommendations submitted in the prior year can be used for the reapplication. The reapplicant must submit official transcripts for all college courses taken since the last application.

## TRANSFER STUDENTS

When openings in advanced classes permit, the College will review applications for advanced standing from students who are currently enrolled in other accredited schools or colleges of optometry. Acceptance is contingent upon satisfactory completion of courses equivalent to those at The New England College of Optometry. Students requesting transfer must provide a personal statement with supporting documentation demonstrating a compelling need to transfer in order to complete their optometric education.

Official acknowledgment of transfer, and certification of good academic standing are required from the Dean of the optometry school from which the applicant seeks to transfer.

## SECURING ADMISSION UPON ACCEPTANCE

Applicants offered acceptance will be asked to secure their seats with a \$500 non-refundable tuition deposit. This amount allows the College to determine which of those candidates are serious about attendance so that those on the "waiting list" may be offered an opportunity to secure a place in the coming class.

Applicants are also advised that, following the acceptance of a seat in the entering class, they will be required to pay their first quarter's tuition in full by June 30. The \$500 deposit will be credited towards tuition.

## EARLY ADMISSIONS AND JOINT B.S./O.D. DEGREE PROGRAMS

The New England College of Optometry has affiliations with undergraduate institutions in New England for the awarding of a joint Bachelor of Science degree. The New England College of Optometry offers this program in conjunction with Assumption College in Worcester, University of Hartford, Providence College, St. Joseph's in Vermont, and Wheaton College.

Students entering this joint program may receive a conditional acceptance into the College as they begin their first year of undergraduate studies. Upon completion of three years of specified course work, (providing predetermined grade point average and OAT scores are met), these students will enroll at The New England College of Optometry. After the second year of professional study, the student will earn a Bachelor of Science degree from their undergraduate institution. After completion of the fourth year of professional study, the student will earn the Doctor of Optometry degree from The New England College of Optometry.





## IV. TUITION, FEES, AND FINANCIAL AID



### TUITION

For 1995-96, the tuition at The New England College of Optometry is \$6,283 per quarter, and for 1996-97 \$6,520 per quarter. For the 1995-96 academic year, annual tuition in the four-year professional program is \$18,849. The annual tuition for the Accelerated Doctor of Optometry Degree Program and the first year of the Advanced Standing International Program is \$25,132 (four academic quarters per year). Tuition for part-time study is calculated at \$393 per quarter credit hour.

#### State Contract Support

The actual tuition paid by entering students is the current tuition less any directly applicable state contract support. Some states in the Northeast provide tuition assistance for residents attending The New England College of Optometry. State contract support occurs in the form of non-repayable grants or interest-free loans, most of which may include a post-graduation service commitment. Applicants should contact the Admissions Office to find out if their state has a contract arrangement with the College.

### FEES AND EXPENSES

Fees include the non-refundable application fee of \$50, an annual student activity fee of \$100, a \$300 laboratory fee for first year, and a \$75 graduation fee. Students should anticipate additional expenses of \$5,000 for textbooks, laboratory manuals, and equipment.

### PAYMENT POLICY

All tuition and fees are due and payable on or before the first day of classes of each quarter, except first year students which are due by June 30 of the year of entry. Students may not register or attend classes if tuition and fees are not paid in full or appropriate arrangements made with the Vice President for Business and Finance at least two weeks prior to the beginning of the quarter.

The College reserves the right to make such changes in tuition and fees which may be deemed necessary by the Board of Trustees before the beginning of any quarter.

### REFUND POLICY

Upon notification by the Registrar that a continuing student (one who has completed at least 60% of the first quarter at the College) has withdrawn, the Financial Aid and Business Offices will initiate a refund of tuition and fees, less any unpaid balance, according to the following table:

Withdrawal date	Percentage of Tuition and Fees Refunded
Prior to the 1st day of the academic period	100%
During the 1st week	90%
During the 2nd to 3rd weeks	50%
During the 4th to 6th weeks	25%

Any student who withdraws on or before the completion of 60% of his or her first quarter at the College will be given a pro rata refund of tuition, fees, room, and any other charges assessed, less any unpaid balance.

## STUDENT HEALTH INSURANCE

As part of the Commonwealth of Massachusetts program of Universal Health Care, each institution of higher education in the Commonwealth is required by law to ensure that students (3/4 time or more) are enrolled in a qualified student health insurance plan.

In order to comply with this mandate, students are enrolled in a comprehensive health insurance program underwritten by the Commercial Travelers Mutual Insurance Company.

Students may waive participation in the College's health insurance program if they have alternate coverage. A waiver form must be filed with the College prior to the beginning of classes. If a waiver form is not filed or if it is submitted late, the student will be enrolled in the student insurance program and billed accordingly.

### College Dormitory Fees

The College operates a dormitory for use by students enrolled at the College. A limited number of single and double occupancy rooms are available. The rental cost varies depending on the accommodations and ranges from \$1,200 to \$1,400 per quarter for the 1995-96 academic year.

## FINANCIAL AID

The financing of an optometric education is growing more complex. Educational programs in the health professions are expensive, but at the same time represent an investment in a secure future career. Tuition and fees for students in the College's four year program are \$19,249 in 1995-96; living expenses, books and equipment bring the annual cost of education to approximately \$31,672. Because this level of expense often exceeds the resources available, students often rely on student loans, Federal Work-Study, and other financial aid programs. It is important that the student understand the financial commitment before beginning graduate/professional education.

The College awards financial aid funds from a variety of sources to assist students in meeting their financial obligations.





A financial aid packet, containing the Financial Aid Handbook and all forms necessary to apply for financial aid, is mailed in January to all applicants accepted into the entering class. Parents' financial information is required of all applicants applying for institutional aid and health profession loans. A new financial aid application is required each academic year.

Eligibility for federal student financial aid is primarily determined by financial need. Individual need is defined as the difference between the standard student budget calculated by the College and available resources as measured by the Free Application for Federal Student Aid (FAFSA). In addition, one must be a citizen, national or permanent resident of the United States; enrolled or accepted for full-time study; and making satisfactory academic progress. Students must have also registered for the draft if required to do so and must not owe a refund or be in default on any financial aid previously received.

Federal and state financial aid programs change frequently. While the information presented here is accurate as of the date of publication, the most current and up-to-date information may be obtained from the College's Financial Aid Office.

The following is a listing of sources of financial aid for students attending The New England College of Optometry. For complete information consult the Financial Aid Handbook or contact the Financial Aid Office.

## **FEDERAL PROGRAMS**

### **Subsidized Federal Direct Loan Program**

The Subsidized Federal Direct Loan Program provides funding of up to \$8,500 per year (\$65,500 cumulative total) for students based upon financial need. The repayment period is ten years.

### **Unsubsidized Federal Direct Loans**

The Unsubsidized Federal Direct Loan program provides loans up to \$10,000 per year. The repayment period is ten years and the interest can be deferred until after graduation.

### **Federal Perkins Loans**

The Federal Perkins Loan Program provides funding for students based upon financial need. The amount varies according to available funding and the student's need, with a repayment period of ten years.

### **Health Professions Student Loan Program (HPSL)**

The Health Professions Student Loan Program provides funding for students based upon financial need. The amount varies according to available funding and the student's need, with repayment beginning 12 months after program completion.



### **Loans for Disadvantaged Students (LDS)**

The purpose of the Loans for Disadvantaged Students (LDS) program is to provide long-term, low-interest loans to eligible students from disadvantaged backgrounds. Repayment begins 12 months after program completion.

### **Health Education Assistance Loan Program (HEAL)**

The Health Education Assistance Loan Program provides up to \$20,000 per year (\$80,000 cumulative total) to students based upon financial need. Repayment begins 9 months after a student ceases to be enrolled as a full-time student. A borrower has from 10-25 years to repay loan.

### **Federal Work-Study Program (FWS)**

The Federal Work-Study Program provides students with financial need the opportunity to earn supplemental income through part-time work at the College. Wages range between \$6.50 and \$10.00 per hour.

## **COLLEGE LOANS**

### **Fund for Education Loans**

The Fund for Education Loans are for economically disadvantaged or minority students showing financial need. The repayment period is 5 years, interest-free until 12 months after graduation.

### **Saval Loan**

The purpose of the Saval Loan is to offer low-interest, long-term, deferred loans to students who even though they have unmet need have no access to financial aid. Repayment begins 12 months after departure from the College. The student has 5 years to repay both principal and interest.



## **PRIVATE SUPPLEMENTAL LOANS**

### **Graduate Education Loan (GEL)**

The purpose of the Graduate Education Loan is to provide non-need based supplemental loans at a fixed interest rate for College students in their third and/or fourth year of the four-year program or students in the Accelerated or Advanced Standing International programs. All applicants must have a creditworthy co-signer who is a United States citizen or permanent resident. Canadian students may have a co-signer who is a Canadian. The maximum loan per year is the student's cost of education for that year minus all other financial aid received for the same period. The total repayment period cannot exceed 15 years, including the deferral period which extends to 6 months after graduation.

### **OP-LOAN**

The purpose of the OP-LOAN is to provide a credit-based loan which may be used to supplement other forms of financial assistance. The minimum loan per academic year is \$1,500 and the maximum amount is \$20,000. Repayment may extend up to 20 years depending on the total amount borrowed and begins 12 months after the student graduates or leaves school.

### **Professional Education Plan (PEP)**

The Professional Education Plan offers loans of up to \$20,000 based upon creditworthiness. The repayment period is 20 years; repayment of principal and interest can be deferred until after graduation.

## **MILITARY PROGRAMS**

### **Health Profession Scholarship Program (HPSP)**

The Health Profession Scholarship Program covers complete tuition payment, books, fees, and required health insurance. Please review the Financial Aid Handbook for further information.

### **National Health Service Corps Scholarship Program**

Optometry students are no longer included in this program. Please review the Financial Aid Handbook for further information.

### **Veterans Administration**

Students eligible for education benefits through the Veterans Administration should contact the Financial Aid Office or their local VA Office or the VA Regional Office, JFK Federal Building, Boston, MA 02203.

## SCHOLARSHIPS AND FELLOWSHIPS

### **Joseph M. Duffy, Frederick E. Farnum, Otto Hochstadt and Lynwood W. Storer Fellowship**

The Joseph M. Duffy, Frederick E. Farnum, Otto Hochstadt and Lynwood W. Storer Fellowship provides scholarship assistance to minority and economically disadvantaged students in the four-year program. The amount varies and is awarded to a limited number of exceptionally needy students in the four-year program.

The Financial Aid Office assists in the application process for the following scholarships:

### **Allergan Optometry School Award**

Allergan provides awards of \$750 and \$500 to students based upon submitted papers relating to their clinical research.

### **Alumni Association Scholarship**

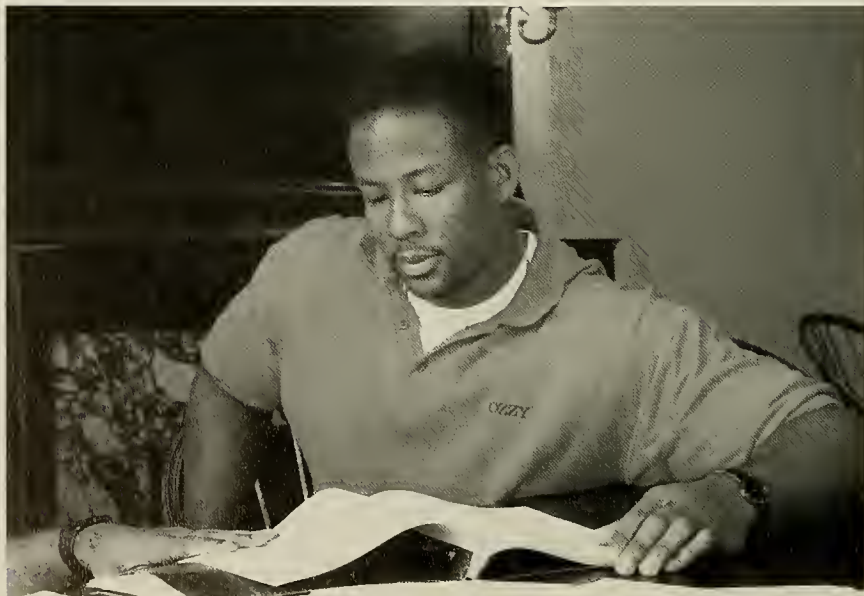
The Alumni Association of the College provides eight awards of \$1,000 each to students in good academic standing and with demonstrated financial need.

### **Association of Schools and Colleges of Optometry Scholarship**

The Association of Schools and Colleges of Optometry provides a scholarship to a student in the first, second, or third year who is in good academic standing, has demonstrated financial need, and actively participates in student activities.

### **William C. Barrett Memorial Scholarship for Clinical Excellence**

The William C. Barrett Memorial Scholarship for Clinical Excellence provides a \$1,000 award to a fourth year student with outstanding clinical skills and documented financial need. Priority is given to students meeting these criteria who served in clinical rotations at the Omni Centers in Atlanta, Georgia and Phoenix, Arizona. The scholarship award will be used to reduce the outstanding principal on the recipient's most costly student loan.





**Beider Moral Obligation Scholarship**

The Beider Moral Obligation Scholarship provides eight awards of \$2,000 each. The recipient must be a student in the third or fourth year; must have a cumulative grade-point average of over 3.60; must be financially needy; and must be an earnest and faithful student.

**Class of '69 Scholarship**

The Class of '69 Scholarship provides \$500 to a fourth year student with demonstrated financial need and outstanding clinical performance.

**Israel and Sylvia Grossman Scholarship**

The Israel and Sylvia Grossman Scholarship awards \$1,000 to a student in the second, third, or fourth year who has demonstrated academic achievement, financial need, and the potential for becoming an active and concerned member of the alumni body of the College and the optometric profession.

**Monthe N. Kofos Scholarship**

The Monthe N. Kofos Scholarship awards two \$500 scholarships to students in the third or fourth years who have demonstrated academic achievement, financial need, and the potential to contribute to the optometric profession.

**Jean M. Lank Memorial Scholarship Fund**

The Jean M. Lank Memorial Scholarship Fund awards \$500 to a student who is a nurse (RN or LPN) or an adult seeking a career change. Preference will be given to an entering first year student.

**Carroll Martus Scholarship**

The Carroll Martus Scholarship awards \$500 to recognize achievement of a student in the four year program.

**Foster Namias Scholarship**

The Foster Namias Scholarship provides \$1,000 to a student who shows financial need and is in the top 5% of the second or third year class.

**The New England College of Optometry Award for Clinical Excellence**

The New England College of Optometry Award for Clinical Excellence provides one award of \$750 to a second year student in the 4-year program who has demonstrated superior clinical competence.

**The New England College of Optometry Award for Excellence in Literary Research**

The New England College of Optometry Award for Excellence in Literature Research provides two awards of \$750 to students in the first and third year of the 4-year program who have submitted outstanding papers to fulfill requirements for the literature research courses.

### **Harry and Sara Pildes Scholarship**

The Harry and Sara Pildes Scholarship awards \$1,000 to a student in the first year of the four year program who has demonstrated academic achievement, financial need, and the potential for becoming an active and concerned member of the alumni body of the College and the optometric profession.

### **Silhouette Optical Grant**

The Silhouette Optical Grant awards \$1,000 to a third or fourth year student who has demonstrated academic achievement, financial need, and the potential for becoming an active and concerned member of the alumni body of the College and the optometric profession.

### **Vision Service Plan (VSP) Scholarship**

The Vision Service Plan (VSP) Scholarship awards two \$2,000 scholarships to students in the fourth year with a grade-point average in the top half of the class who have a commitment to enter independent practice.

## **EXTERNALLY DETERMINED SCHOLARSHIPS**

### **American Foundation for Vision Awareness - Michigan Affiliate**

The American Foundation for Vision Awareness-Michigan Affiliate awards \$500 to \$1,000 to a resident of the state of Michigan in the third year class who has at least a "B" average and is financially needy.

### **American Foundation for Vision Awareness - Minnesota Affiliate**

The American Foundation for Vision Awareness-Minnesota Affiliate provides two \$1,000 awards to residents of Minnesota who are entering their first year of professional study at any of the colleges of optometry. The applicant must be in the upper one third of his/her class.

### **American Foundation for Vision Awareness - Nebraska Affiliate**

The American Foundation for Vision Awareness-Nebraska Affiliate awards \$1,000 to a Nebraska resident who will be in the second, third, or fourth year class in the fall quarter.

### **American Foundation for Vision Awareness - Washington Affiliate**

The American Foundation for Vision Awareness-Washington Affiliate awards at least \$500 to a student who is a resident of the state of Washington, accepted or enrolled in a school of optometry, and does not have a Washington state optometrist as an immediate family member.

### **George Comstock Scholarship**

The George Comstock Scholarship, sponsored by the Connecticut Optometric Society, provides awards ranging from \$500 to \$1,500 depending on the number of applicants. The applicant must be a Connecticut resident enrolled in optometry school, with good character, scholastic achievement, and financial need.

### **Richard C. Dexter Scholarship**

The Richard C. Dexter Scholarship, sponsored by the New Hampshire Optometric Association, provides an award up to \$1,000 to an upper classman. The applicant must be a New Hampshire resident who has an interest in returning to New Hampshire to practice and a full-time student with demonstrated financial need.

### **Dr. Seymour Galina Grant**

The Dr. Seymour Galina Grant provides \$2,500 to a third year student who is a member in good standing of the AOSA. The applicant must submit a paper; the best paper from the College will be entered in the national AOA competition.

### **Dr. Gary Gross Scholarship**

The Dr. Gary Gross Scholarship provides two \$2,500 awards nationwide to fourth year students who are residents of Illinois, Iowa, Michigan, Minnesota, Nebraska, North or South Dakota, or Wisconsin. The applicant must submit an essay to the Financial Aid Committee who will select the College's nominee on the basis of scholarship and leadership. The final award is made by the Dr. Gary Gross Scholarship Selection Committee.

### **Heart of America Contact Lens Society**

The Heart of America Contact Lens Society provides grants of up to \$7,000 to a currently enrolled optometry student whose permanent residence is in one of the following states: Oklahoma, Kansas, Nebraska, Iowa, Illinois, Missouri or Arkansas.

### **Dr. Dorothy Weitzner Kornblut Scholarship**

The Dr. Dorothy Weitzner Kornblut Scholarship sponsored by the Bridgeport Area Foundation, Inc., assisted by the Connecticut Optometric Society, provides one or more awards of \$500 to \$1,500 to female optometry students based on character, scholarship, and financial need. Preference is given to a resident of Fairfield County, State of Connecticut, and New England (in that order).

### **LensCrafters**

LensCrafters provides ten \$1,000 awards nationwide to enrolled optometry students who are employed by LensCrafters and/or an optometrist affiliated with LensCrafters.

### **Massachusetts Society of Optometrists**

The Massachusetts Society of Optometrists provides two awards of \$750 to students who are residents of Massachusetts, who demonstrate achievement in the study of optometry and show financial need.





**Maryland Senatorial Scholarship**

The Maryland Senatorial Scholarship provides up to \$2,000 to a Maryland resident who is making satisfactory progress while enrolled in a graduate program.

**Dr. Leslie Mintz Scholarship Award**

The Dr. Leslie Mintz Scholarship Award, sponsored by the New Jersey Optometric Association, provides awards of \$1,000 to New Jersey residents who are full-time optometry students with demonstrated financial need.

**Petry-Lomb Scholarship**

The Petry-Lomb Scholarship, sponsored by the Rochester (New York) Optometric Society and its Auxiliary, provides a \$1,000 scholarship to a New York state resident who is a student in good academic standing in an accredited optometry school. Preference is given to students from Monroe, Wayne, Livingston, Genesee, Ontario, and Orleans Counties.

**Hilda L. Rand Fund**

The Hilda L. Rand Fund, sponsored by the Women's Auxiliary of the Maine Optometric Association, provides a \$1,000 scholarship to a Maine resident with good character, scholastic achievement, and financial need.

**Varilux Student Grant**

The Varilux Student Grant is a \$500 award given to a third or fourth year optometry student in the United States based upon a submitted case report.

**VEF Eye Center of Oklahoma**

The VEF Eye Center of Oklahoma awards \$1,000 to a currently enrolled optometry student. The applicant must submit a paper of publishable quality in the area of ocular disease.

## V. DEGREE REQUIREMENTS & ACADEMIC POLICIES

### DEGREE REQUIREMENTS

#### Doctor of Optometry Degree (O.D.)

The Doctor of Optometry is a professional degree and is a prerequisite for optometry licensure in the United States. Award of the degree is made by the Board of Trustees upon recommendation of the faculty following the satisfactory completion of the professional curriculum in optometry and fulfillment of all obligations to the College.

To qualify for the degree, the student must ordinarily spend at least two academic years in residence at The New England College of Optometry and obtain a cumulative grade-point average of 2.00 or higher. Further, no student can graduate with an outstanding grade of "F," "Remedial," or "Incomplete" on his or her record.

#### Bachelor of Science Degree in Optometry (B.S.)

Students who have not earned a bachelor's degree prior to enrolling in the four-year professional program may receive the Bachelor of Science degree in Optometry. In order to be eligible for this degree, the student must:

1. Hold no prior bachelor's degree.
2. Have successfully completed at least 12 semester hours of Social Science and 12 semester hours of Humanities at the undergraduate level.
3. Have successfully completed two years of study at The New England College of Optometry.
4. Have not yet received the Doctor of Optometry degree.

The student must submit a written request to the Registrar for the Bachelor of Science degree at the beginning of the second year of study. Because a student is not eligible for the B.S. degree after graduation from the College, any deficiencies in the undergraduate course requirements must be completed prior to receipt of the Doctor of Optometry degree.



Course work generally falls under the headings of Humanities and Social Sciences according to the following table:

**Humanities**

Language: ancient, modern  
Literature: ancient, modern, theory  
Fine Arts  
Music  
Drama  
Philosophy\*  
Philosophy of History  
Theology  
History of Philosophy of Science\*

**Social Sciences**

Psychology  
Anthropology  
History of Civilization  
Geography  
Political Science  
Economics  
Sociology  
Criminology  
Jurisprudence  
Ethnology  
Demography  
Law  
Statistics  
History\*

\*Primarily categorized as shown, but may be classified otherwise, depending on the undergraduate college. Check with your undergraduate advisor.

**GRADING AND ACADEMIC POLICIES**

The following section provides an overview of the grading and academic policies maintained by The New England College of Optometry. It is not inclusive or descriptive of all policies potentially affecting students enrolled at the College. Full documentation of grading and academic policies is contained in the Student Handbook which is provided to all students at the time of initial registration.

All matters concerning grades and academic policies will be handled by the College's Student Affairs Committee (SAC). This Committee consists of five members of the faculty who are elected by the faculty; the Vice President for Student and Alumni Affairs and the Registrar who serve as ex officio voting members, and the Director of Financial Aid who serves as an ex officio non-voting member; and two voting student members who are elected by the Student Council.

**Requirements for Academic Promotion**

Students are required to meet minimum academic standards in order to advance to the next professional year of study. The academic program is generally graded on a 4 point scale: A=4.00; B=3.00; C=2.00; D=1.00; F=0.00. To progress into the second and third professional year of study, the student must maintain a cumulative grade-point average of at least 2.00. To progress into the fourth professional year, the student must have 2.00 cumulative grade-point average, and no grades of "Incomplete," "Remedial," or "F".

Students who do not meet the above requirements may satisfy them by: 1) repeating the entire academic year, or 2) by taking the appropriate courses, if offered, during the summer quarter. The College accepts no obligation to re-offer courses during the summer for students who have received failing grades. Students will only be offered the



above options upon recommendation of the Student Affairs Committee after consultation with the Dean for Academic Affairs.

### **Academic Evaluation Protocol**

Action regarding academic warning or academic probation is automatic when a student fails to meet the College's academic standards. This action will be taken by the Office of the Registrar upon finalization of grades at the end of each grading period according to the following standards:

#### **1. Academic Warning**

A designation of academic warning is applied to any student who is not in their final year with a cumulative grade-point average between 2.00 and 2.20. A designation of academic warning will be removed when the student's cumulative grade-point average is 2.20 or higher.

#### **2. Academic Probation**

A designation of academic probation is applied to any student with a grade-point average below 2.00, or who has earned two grades of "F" in one academic quarter. Academic probation is removed when the student's cumulative grade-point average is 2.00 or above.

#### **3. Dismissal**

The following situations may result in dismissal for academic reasons:

- a. A student is on academic probation for three consecutive quarters.
- b. A student in the four year program receives a quarterly grade-point average of 1.50 or below. A student in the Advanced Standing or Accelerated Program receives a quarterly grade-point average of 1.60 or below.
- c. When a grade of "F" is earned in a course taken to resolve a previous grade of "F".
- d. When a grade of "F" is earned in a clinical course.
- e. When the requirements for advancement are not met.

The Student Affairs Committee will consider actions for dismissal according to procedures outlined in the Student Handbook.

### **Clinical Evaluation Protocol**

All clinical courses are graded on a pass/fail basis according to the following categories:

Honors: outstanding level of performance.

Pass: adequate performance.

Remedial: marginally inadequate performance.

Failure: inadequate performance.

Incomplete: adequate performance; requirements not complete.

Clinical grades are based on student's performance relative to the established objectives for the course and reflect the student's knowledge, analytic ability, technical skill, and professionalism.

### **Withdrawal from the College or from a Course**

Any student may withdraw from the College by informing the Registrar in writing at least two weeks prior to the first day of final exam week (or three weeks prior to the beginning of the withdrawal if in a clinical rotation). A student wishing to apply for re-admission after withdrawal must petition the Dean of Academic Affairs. Withdrawal in good academic standing does not guarantee re-admission.

Students are not normally allowed to withdraw from individual courses. In unusual circumstances, a student who is performing at a "C" or "P" or higher level may submit a written petition to the Dean of Academic Affairs or the Dean of Clinical Affairs as appropriate no later than two weeks prior to the final examination week. Permission to withdraw from the course will only be given by the appropriate Dean after consultation with the course instructor. If a student withdraws from a course, a grade of "W" will be transcribed. If a student withdraws from a course without permission, as evidenced by non-attendance and failure to complete assignments and take examinations, a grade of "F" will be transcribed.

### **Leave of Absence**

A student in good academic standing may request a leave of absence from the College by writing the Dean of Academic Affairs at least 30 days in advance of the starting date for the leave. This requirement will only be waived in the most extraordinary of circumstances.

If the student requesting a leave of absence is a fourth year student, granting of the leave is dependent upon consultation between the Dean of Academic Affairs and the Dean of Clinical Affairs who will seek advice from the Director of External Clinical Programs. This limitation and provision is to insure that affiliated clinic needs are met.

The Dean will inform the student in writing with a copy to the Registrar as to whether the leave of absence has been approved and any terms relative to returning to the College.

### **A leave of absence is governed by the following:**

A leave of absence may not be granted before all tuition and fees are paid in full, and the student has met with the Financial Aid Office and the Student Loan/Collection Officer to discuss the effect of the leave upon financial aid arrangements.

A leave of absence may not be extended beyond one year. Ordinarily a student is granted only one leave of absence.

The duration of a leave of absence may be affected by curricular organization. Date of re-entry will be determined by the Dean of Academic Affairs.

Any student who returns to the College after a leave of absence may be required to take additional course work due to curricular changes. Students taking a leave of absence do so with the understanding that course sequencing may change during the leave of absence.

A student returning from a leave of absence may be required to pass a clinic proficiency exam prior to assignment to clinical patient care.

A student who is granted a leave of absence must have an exit interview with the Financial Aid Office and the Student Loan/Collection Officer.

## **PROTOCOL FOR PROFESSIONAL CONDUCT**

The College reserves the right to terminate the enrollment of any student at any time for whatever the College faculty and administration consider to be a good and sufficient reason, such as unprofessional conduct or felony conviction. Unprofessional conduct may include, but not be limited to, cheating, plagiarism, unexcused absences from assignments, falsifying clinical records, and abusive behavior. Any student who organizes or participates in harassment or hazing shall be considered to have behaved unprofessionally.

## **GRIEVANCE PROCEDURE**

It is believed that sound educational policies in conjunction with a practical affirmative action program are the most effective means of ensuring fair and equitable educational opportunities. However, it is also recognized that changing institutional and individual needs, the human element in relations among students, faculty and administration, and the complexities of personal interaction within the educational environment require mechanisms whereby students can seek redress or adjustment of considerations that affect them.

Any student who feels he or she has been discriminated against on the basis of race, color, sex, or national origin should detail the grievance in writing to the Vice President for Student and Alumni Affairs. If the Vice President for Student and Alumni Affairs is unable to resolve the issue, he/she will appoint a Grievance Committee.

Problems resulting from a misunderstanding or apparent inconsistencies in issues of academic evaluation, performance, or misconduct should be brought to the attention of the Student Affairs Committee in writing.

A complete explanation of the College's grievance procedure is found in the Student Handbook.

## **DRUG AND ALCOHOL ABUSE POLICY**

The New England College of Optometry maintains a Drug and Alcohol Abuse Policy in compliance with the The Drug Free Schools and Communities Act Amendment of 1989. The purpose of the policy is to prevent the unlawful possession, use, or distribution of illicit drugs and alcohol, and the abuse of alcohol, by students and employees.

The College strictly prohibits, on its premises or at all College sponsored functions off-campus: (a) the possession, use, or distribution of illicit drugs, including the inappropriate possession, use, or distribution of pharmaceutical drugs; (b) the possession or consumption of alcohol, by or distributed to a person under 21 years of age.

The College reserves the right to restrict the use, distribution, or possession of alcohol on College premises or at any College sponsored functions by persons 21 years old or older. The College also reserves the right to request documentation of age before serving alcohol.



Functions planned for or by employees or students at which alcohol will be served must be pre-approved by the Vice President for Administration.

At all College functions, non-alcoholic beverages must be provided and located in a visible area separate from alcoholic beverages.

Food must always be available at all College functions where alcohol is served.

The College expects employees and students to create and maintain a professional and educational environment that is safe and healthy and encourages responsible conduct. Furthermore, the College holds employees and students responsible for the consequences of using or distributing illicit drugs, and serving or consuming alcohol.

For additional information regarding disciplinary policies, legal sanctions for violating drug and alcohol laws, health risks, and counseling and treatment services, refer to the Student Handbook.

### **OTHER COLLEGE PUBLICATIONS**

Students should review all College publications including the Student Handbook, clinical education manuals, and Financial Aid Handbook for other College policies and procedures.

## **VI. STUDENT SERVICES & ACTIVITIES**

### **STUDENT SERVICES**

#### **Tutorial Services**

The College provides a peer tutoring system available to all students at no cost. The goal of the tutorial program is to provide students with the opportunity to work with successful upper-class students on material clarification, technical skills, and study skills. These goals are accomplished by providing large group sessions, small group sessions, and individual tutoring. Group sessions are provided in conjunction with several first year courses. Requests for individual tutoring are subject to review by the Director of the program prior to approval.

#### **Academic Counseling**

The New England College of Optometry offers counseling for academic issues through the office of the Vice President for Student and Alumni Affairs. Any concerns or questions regarding academic standards, grading policy or process should be addressed to this office.

#### **Counseling Service**

The goal of the Counseling Service is to help students cope with the many stresses of acquiring a professional education. This goal is accomplished in two ways: first, direct services to students (and family members) and second, advising the administration and faculty on ways to improve the emotional climate at the College and thereby prevent individual student problems.

The Counseling Service provides:

- 24 hour a day, on call emergency service
- information and referral services to students and their family members
- diagnostic and counseling services
- consultation and linkage services to practitioners serving individual students (when a student is receiving care, the Counseling Service can play a supportive role in assisting the student in his/her academic program.)

### **MINORITY STUDENT SERVICES**

The College's Office of Minority Student Services addresses issues and concerns of minority students, provides students with counseling, academic advising, peer support, cultural expression events, study skills, minority financial aid resource information, and referrals.

## **Programs for Minority and Disadvantaged Students**

The College's Office of Minority Student Services operates the Optometric Career Access Program (OCAP), a comprehensive optometric summer program for minority and disadvantaged students. Its aim is to increase the number of minority and disadvantaged students who apply and enter the professional program. Operation ACCESS is a program for college sophomores, juniors, and seniors which is designed to introduce and stimulate interest in pursuing an optometric career. Operation SUCCESS is a program for students who have been accepted to the College. It provides mini-courses designed to enhance the students' readiness for the first-year curriculum. These programs are provided at no cost to the students. For specific information regarding these programs, contact the Office of Minority Student Services.

## **PEER ADVISING PROGRAM**

Second-year students have been appointed as Peer Advisors for incoming first-year students. The goal of this program is to help with orientation to the College and to provide assistance whenever needed throughout the first year.

Small groups of first-year students in the Doctor of Optometry Degree Program will be assigned to each Peer Advisor. These groups will meet regularly. This program is administered by the Student Affairs Office; advisors are paid for their services.

## **STUDENT ACTIVITIES**

### **Student Council**

The Student Council is organized to govern the internal affairs of the College's student body. The Council consists of twenty-three voting members: four officers, five representatives from each class in the four year program, and one representative each from the students in the Accelerated and Advanced Standing programs. The College's representative to the American Optometric Student Association (AOSA) is also a voting member of the Student Council. Council meetings are open to the entire student body.





There are two main areas of responsibility for the Student Council. The first is to process, manage, and allocate student activity fees. Use of these funds includes the payment of AOSA dues; sponsorship of various social activities and clubs, including picnics, parties, cruises, hockey; and funding of the annual dinner dance, the Eyeball. Funding is also provided for the annual yearbook, AOSA activities and trips, and Volunteer Optometrists in Service to Humanity (VOSH) expeditions.

The second responsibility is to promote mutual understanding and respect among students, faculty, and administration. As part of this responsibility, the Student Council members participate on the Student Affairs Committee, Admissions Committee, Financial Aid Committee, and Curriculum Committee. The President of the Student Council is a voting member on the Board of Trustees and serves as a member on the Executive Council of the Alumni Association.

**The American Optometric Student Association (AOSA)**

Every student becomes a member of the AOSA when his or her student activity fee is paid. AOSA members receive t-shirts, clipboards, nearpoint cards, **Foresight** (AOSA's newsletter), and other benefits throughout their years at the College. AOSA student liaisons and committee chairpersons provide input into a variety of organizations including the National Board of Examiners in Optometry (NBEO), Association of Schools and Colleges of Optometry (ASCO), and various sections of the American Optometric Association (AOA). Local AOSA activities at the College include lunchtime seminars, special speakers and films, and panel discussions on optometric issues. In addition, the AOSA holds a national congress every year at various sites throughout North America. These congresses provide educational classes and an opportunity to meet fellow students from other schools and colleges of optometry.

**National Optometric Student Association (NOSA)**

NOSA is the student branch of the National Optometric Association (NOA), a professional association of predominantly minority optometrists. NOA's primary objective is the delivery of vision/health care to minority communities.

One of the goals of the NOA is to actively recruit minority students into schools and colleges of optometry and to provide assistance to new graduates, as well as to provide minority optometrists with practice enhancement and updating of optometric knowledge, skills and professional practice, placement, and procurement of financial aid.

Of the 30,000 practicing optometrists nationwide, only a small percentage are minorities. Vision-related problems among the poor and minority populations are eight times more prevalent than for the rest of the nation. There are not enough vision-care practitioners to provide proper care for this segment of the population. NOA addresses this problem, and since its founding in 1969, the number of minority optometrists has nearly tripled.

### **Volunteer Optometrists in Service to Humanity (VOSH)**

VOSH is a national organization that provides eye care services to the underserved populations of the world. The VOSH Massachusetts chapter is run by optometry students in concert with faculty and administration advisors and a liaison from the Massachusetts Society of Optometrists. VOSH members volunteer their time to provide services to needy people in Third World countries, as well as Boston. VOSH Massachusetts has established sites in Mexico where students and optometrists travel annually to provide free eye care to the poor people of the area. Eyeglasses which have been donated to VOSH are dispensed to the patients who are in need.

### **YEARBOOK**

**Reflections** is the published account of a class's four years at the College. The publication of the student yearbook is the full responsibility of the students and associated organizations.

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## VII. FACULTY, BOARD OF TRUSTEES, ADMINISTRATION

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### Regular Full and Part Time Faculty

**Barry J. Barresi**, Marcus Professor of Health Policy; B.A., College of the Holy Cross; O.D., The New England College of Optometry; Ph.D., New York University  
**Susan Baylus**, Assistant Professor of Optometry; B.S., University of Maryland; O.D., The New England College of Optometry  
**Dorothy Bazzinotti**, Assistant Professor of Optometry; B.A., College of the Holy Cross; O.D., The New England College of Optometry  
**Sandra Bedard**, Assistant Professor of Optometry; B.A., Assumption College; O.D., The New England College of Optometry  
**Richard Calderon**, Associate Professor of Optometry; B.S., M.S., University of New Mexico; O.D., The New England College of Optometry  
**Nancy Carlson**, Professor of Optometry; B.S., Central Connecticut State College; O.D., The New England College of Optometry  
**Joanne Caruso**, Assistant Professor of Optometry; B.A., Emmanuel College; O.D., The New England College of Optometry  
**Michelle Cassin**, Assistant Professor of Optometry; B.A., Boston University; O.D., The New England College of Optometry  
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**Larry R. Clausen**, Associate Professor of Public Health and President; B.S., Pacific University; O.D., Pacific University College of Optometry; M.P.H. University of Michigan; Ed.D., Harvard University  
**James Comerford**, Professor of Vision Science; B.S., Loyola University; M.A., University of California, Santa Barbara; Ph.D., University of California, Santa Barbara; O.D., The New England College of Optometry  
**Concetta Daurio**, Associate Professor of Optometry; B.A., State University of New York at Stony Brook; O.D., The New England College of Optometry; M.B.A., Simmons College  
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- Richard Held**, Professor of Vision Science; B.A., B.S., Columbia University; M.A., Swarthmore College; Ph.D., Harvard University
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- Frank Kozol**, Professor of Optometry; B.S., O.D., Massachusetts College of Optometry
- Kathleen Krenzer**, Instructor of Optometry; B.S., University of Notre Dame; O.D., The New England College of Optometry
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- Glen McCormack**, Professor of Physiological Optics; B.S., O.D., Indiana University; Ph.D., University of California at Berkeley
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- Bruce Moore**, Associate Professor of Optometry; B.A., Boston University; O.D., Massachusetts College of Optometry
- Srinivas Natrajan**, Professor of Physiology and Pharmacology; I.Sc., Nizam's College; B.V.Sc., Osmania University, India; M.S., Auburn University; Ph.D., Virginia Polytechnic Institute; M.S., Massachusetts College of Pharmacy; O.D., The New England College of Optometry
- Terrance Neylon**, Assistant Professor of Mathematics, B.A., Ed.D., Harvard University
- Bina Patel**, Assistant Professor of Optometry; B.S., O.D., Indiana University
- Robert Poole**, Assistant Professor of Optometry; B.S., Bates College; O.D., The New England College of Optometry
- Walter Potaznick**, Associate Professor of Optometry; B.S., Polytechnic Institute of Brooklyn; O.D., The New England College of Optometry
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- Frank Thorn**, Professor of Vision Science; B.S., Rensselaer Polytechnic Institute; Ph.D., University of Rochester; O.D., The New England College of Optometry
- Lisa Traveis**, Assistant Professor of Optometry; B.S., Regis College; O.D., The New England College of Optometry
- David Troilo**, Associate Professor of Biophysiology; B.A., State University of New York, Oswego; M.A., The City College of New York; Ph.D., City University of New York
- Guang-Ji Wang**, Associate Professor of Optometry, M.D., Wenzhou Medical College; O.D., The New England College of Optometry
- Ronald Watanabe**, Assistant Professor of Optometry; B.S., University of California, Los Angeles; O.D., Southern California College of Optometry
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- Roger Wilson**, Professor of Optometry; B.A., State University of New York at Buffalo; O.D., The New England College of Optometry
- Mark Zorn**, Professor of Biochemistry; B.S., Rensselaer Polytechnic Institute; Ph.D., Columbia University; O.D., The New England College of Optometry



## Emeritus Faculty

**Paul Lappin**, Professor Emeritus of Physiological Optics; O.D., Massachusetts College of Optometry; M.S., Ph.D., Indiana University

## Adjunct Part Time Faculty

**Robert Allard**, Associate Professor of Optometry; B.A., B.S., O.D.  
**Jerome Avorn**, Associate Professor of Medicine; A.B., M.D.  
**Richard Bringham**, Associate Professor of Medicine; B.S.E., M.D.  
**Stephen Byrnes**, Assistant Professor of Optometry; A.B., O.D.  
**Terry Chin**, Assistant Professor of Optometry; B.A., O.D.  
**Trevor Davies**, Assistant Professor of Optometry, O.D.  
**Thomas Fredo**, Professor of Optometry; B.A., O.D., Ph.D.  
**Claudia Evans**, Assistant Professor of Optometry, B.A., M.A., M.S., O.D.  
**Phillip Gendelman**, Associate Professor of Medicine; B.A., M.D.  
**Ellen Gilman**, Assistant Professor of Optometry; B.S., Ed.M., O.D.  
**Stephen Harney**, Assistant Professor of Optometry; B.A., O.D.  
**Charles Leahy**, Assistant Professor of Optometry; B.A., O.D., M.S.  
**Kenneth Lebow**, Associate Professor of Optometry;  
**Rochelle Leibowitz**, Professor of Computer Science; B.A., M.S., Ph.D.  
**Ernest Loewenstein**, Associate Professor of Optometry; B.A., Ph.D., O.D.  
**Roderick Lorente**, Assistant Professor of Optometry; B.A., O.D.  
**Wendy Mariner**, Adjunct Professor of Health Care Law, J.D., LL.M., M.P.H.  
**John E. McHale**, Assistant Professor of Optometry, B.S., O.D.  
**Herbert Matthews**, Associate Professor of Optics; B.S., M.S., Ph.D., O.D.  
**Mark Monane**, Assistant Professor of Medicine, M.D.  
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**Arthur Neufeld**, Adjunct Professor; B.A., Ph.D.  
**Antonia M. Orfield**, Assistant Professor of Optometry; B.A., M.A.T., O.D.  
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## Adjunct Visiting Faculty

**George J. Annas**, A.B., J.D., M.P.H.  
**Michel Millodot**, Ph.D.  
**Eli Peli**, O.D., M.E.E.  
**John Stoeckle**, B.S., M.D.

**THE NEW ENGLAND COLLEGE OF OPTOMETRY**  
**Academic Calendar**  
**1995-96**

**SUMMER QUARTER**

May 29	Memorial Day Holiday
May 30-June 2	Seminars/Pre-Commencement Activities
June 1	Orientation/Registration for POD I, Int'l I
June 3	GRADUATION!!
June 5	NEEI: First OD III Summer Session begins First day of Classes for POD I, II & Int'l I
June 10-11	NERCOATS Clinical Skills Examination, NEEI
June 24-25	NBEO Clinical Skills Examination, NEEI
June 30	NEEI: First OD III Summer Session ends
July 3-4	Independence Day Holiday
July 31	NEEI: Second OD III Summer Session begins OCAP: Success Program begins
August 8	Last day of classes for POD II
August 9-11	POD II Final Examinations Wed-Fri
August 10-16	NEEI: Second OD III Summer Session NBEO Break
August 10-11	Faculty Retreat/Faculty Meeting
August 18	Last day of classes for POD I, Int'l I
August 21	POD II Clinic Session Begins
August 21-25	Final Examinations for POD I, Int'l I
August 25	OCAP: Success Program ends
September 1	NEEI: Second OD III Summer Session ends POD II Clinic Session ends

**FALL QUARTER**

September 1	Orientation/Registration: OD I
September 4	Labor Day Holiday
September 5	Registration for OD II, OD III, POD I & Int'l I First day of classes
October 9	Columbus Day Holiday
October 10	Faculty Meeting
October 15-18	Accreditation Site Visit - COE & NEASC
November 11	Veteran's Day
November 13	Last day of classes OD III Clinic assignments continue.
November 14-22	Final Examinations OD III exams begin on November 16
November 15	Last day of OD III Clinic assignments
November 23 - 26	Thanksgiving Holiday Weekend

## **WINTER QUARTER**

November 27	First day of classes
December 4-5	National Board Examinations (Part II)
December 7-11	American Academy of Optometry
December 23	Beginning of Student's Winter Holiday
December 25	Christmas Holiday
January 1	New Year Holiday
January 8	Classes and Clinic Resume
January 10-15	AOSA Congress
January 15	Martin Luther King Holiday
January 17	Faculty Meeting
February 16	Last day of classes
February 19	OD III Clinic assignments continue.
February 20-28	President's Day Holiday
February 21	Final Examinations
February 29-March 3	OD III exams begin on February 22
	Last day of OD III Clinic assignments
	Winter Break

## **SPRING QUARTER**

March 4	First day of classes
April 9-11	National Board Examinations (Part I & II)
April 15	Patriot's Day Holiday
April 18	Faculty Meeting
May 14	Last day of Classes and Clinic
May 15-24	Final Examinations
May 27	Memorial Day Holiday
May 28-31	Seminars/Pre-Commencement Activities
June 1	GRADUATION!!!

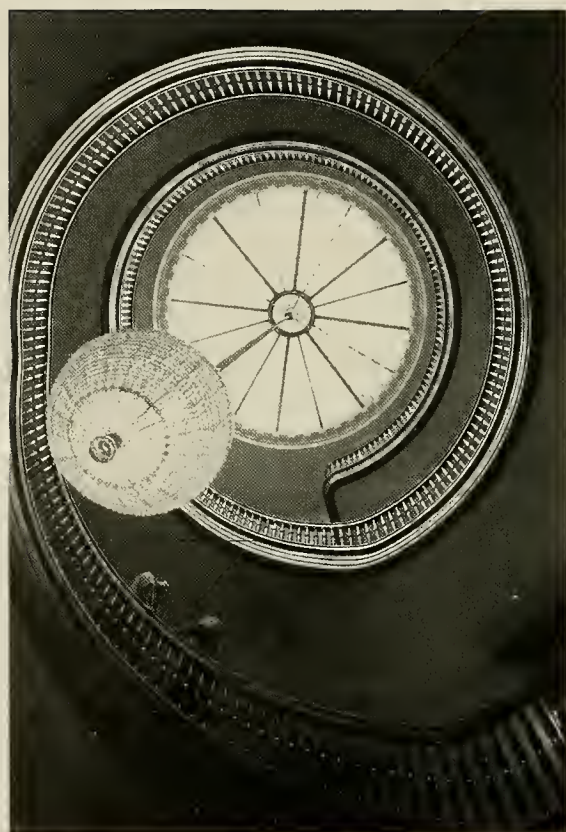
## **Final Year Rotation Calendar**

Rotation 1: May 30, 1995 - September 1, 1995  
Rotation 2: September 5, 1995 - November 24, 1995  
Rotation 3: November 27, 1995 - February 23, 1996  
Rotation 4: February 26, 1996 - May 24, 1996

## **1996-97**

Rotation 1: May 28, 1996 - August 30, 1996







For more information please call  
The New England College of Optometry  
1•800•824•5526

27x5  
120



The New England College of Optometry  
424 Beacon Street  
Boston, Massachusetts 02115  
617-266-2030